The University of Southern Mississippi Bulletin 1976-77

Undergraduate

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University of Southern Mississippi

Bulletin

GENERAL CATALOG ISSUE

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1976-1977

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CALENDAR 1976

JANUARY

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CALENDAR

UNIVERSITY OF SOUTHERN MISSISSIPPI
GENERAL CALENDAR 1976-1977
FALL QUARTER–1976

FIRST TERM

Friday, August 20, 1976
Deadline for making application for admission

Wednesday, September 1
Faculty available for advisement

Thursday and Friday, September 2 and 3
Pre-quarter faculty meetings

Sunday, September 5
Dormitories open

Monday and Tuesday, September 6 and 7
Orientation for new students not attending mini quarter

Monday, September 6
Registration by appointment

Tuesday, September 7
Continuation of registration by appointment
Last day to register without late registration fee

Wednesday, September 8
8:00a.m. Day classes meet on schedule
1:30 p.m. Change of schedule and late registration begin
6:30-8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only)

Thursday, September 9
6:30-8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)

Saturday, September 11
Tuesday class periods A-E meet

Wednesday, September 15
Last day for registering or adding full term Fall Quarter courses

Tuesday, October 5
Last day for dropping courses without academic penalty

SECOND TERM

Monday, October 18
Beginning of second term of Fall Quarter–only date for adding or registering for second term courses
Deadline for submitting applications to School of Nursing

Friday, November 12
Last day of regularly scheduled classes

Monday, Tuesday, Wednesday, Thursday, November 15, 16, 17, 18
Fall Quarter Examinations (night classes will meet through Thursday, November 18, 1976)

WINTER QUARTER–1976-1977

FIRST TERM

Tuesday, November 9, 1976
Deadline for making application for admission

Monday, November 29
Registration by appointment
Orientation for new students not pre-registered

Tuesday, November 30
Continuation of registration by appointment
Last day of registration without late fee

Wednesday, December 1
8:00 a.m. Day classes meet on schedule
1:30 p.m. Change of schedule and late registration begin
6:30-8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only)

Thursday, December 2
6:30-8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)

Wednesday, December 8
Last day for registering or adding full term Winter Quarter courses

Friday, December 17
5:00 p.m. Christmas holidays begin

Monday, January 3, 1977
8:00 a.m. Class work resumes (night classes meet)

Tuesday, January 11
Last day for dropping courses without academic penalty

SECOND TERM

Wednesday, January 19
Beginning of second term of Winter Quarter–only date for adding or registering for second term courses
Deadline for submitting applications to School of Nursing

Friday, February 18
Last day of regularly scheduled classes
Last day to file applications for May graduation

Monday, Tuesday, Wednesday, Thursday, February 21, 22, 23, 24
Winter Quarter Examinations (night classes will meet through Thursday, February 24, 1977)

SPRING QUARTER–1977

FIRST TERM

Tuesday, February 15, 1977
Deadline for making application for admission

Monday, March 7
Registration by appointment
Orientation for new students not pre-registered

Tuesday, March 8
Continuation of registration by appointment
Last day to register without late fee
6:30-8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only) only)

Wednesday, March 9
8:00 a.m. Day classes meet on schedule
1:30 p.m. Change of schedule and late registration begin
6:30-8:00 p.m. Monday night classes meet (this week only)
8:30-10:00 p.m. Wednesday night classes meet (this week only)

Thursday, March 10
Thursday night classes meet

Saturday, March 12
Monday class periods 1-7 meet

Wednesday, March 16
Last day for registration or adding full term Spring Quarter courses

Wednesday, March 30
University of Southern Mississippi Day

Thursday, April 7
Last day for dropping courses without academic penalty
10:00 p.m. Easter holidays begin (night classes will meet)

Sunday, April 10
Easter

Monday, April 11
6:30 p.m. Monday night classes resume

Tuesday, April 12
8:00 a.m. Regular class work resumes
Beginning of second term of Spring Quarter–only date for adding or registering for second term classes
Deadline for submitting applications to School of Nursing

Friday, May 13
Last day of regularly scheduled classes
Last day to file applications for August graduation

Monday, Tuesday, Wednesday, Thursday, May 16, 17, 18, 19
Spring Quarter Examinations (Monday, Tuesday, and Wednesday night classes will meet. Examinations for Thursday night classes will be given on May 12.)

Thursday, May 19
7:30 p.m. Graduation Exercises

SUMMER QUARTER—1977

Tuesday, May 17, 1977
Deadline for making application for admission

Monday, June 6
Orientation for new students not pre-registered
Registration by appointment

Tuesday, June 7
Continuation of registration by appointment
Only day to register for full quarter or first term courses without late fee.
6:30-8:00 p.m. Tuesday night classes meet (this week only)
8:30-10:00 p.m. Thursday night classes meet (this week only)

Wednesday, June 8
8:00 a.m. Day classes meet on schedule
1:30 p.m. Change of schedule and late registration begin
6:30-8:00 p.m. Monday night classes meet (this week only)
8:00-10:00 p.m. Wednesday night classes meet (this week only)

Thursday, June 9
Thursday night classes meet

Friday, June 10
Last day for registering or adding first term courses

Saturday, June 11
Tuesday class periods A-E meet

Wednesday, June 15
Last day for registering or adding full quarter courses
Last day for dropping first term courses

Friday, June 24
Last day for dropping full quarter courses without academic penalty
Deadline for making application for admission for the second term of the Summer Quarter

Monday, July 4
Independence Day holiday

Monday, July 11
Registration for second term of Summer Quarter
Second term courses may be added without change of schedule fee
Deadline for submitting applications to School of Nursing
Last day to file application for Fall Quarter degree completion

Wednesday, July 13
Last day for registering or adding second term courses

Monday, July 18
Last day for dropping second term courses

Friday, August 12
Last day of regularly scheduled classes

Monday, Tuesday, Wednesday, Thursday, August 15, 16, 17, 18
Summer Quarter Examinations (Monday, Tuesday, Wednesday night classes will meet. Examinations for Thursday night classes will be given August 11.)

Thursday, August 18
7:30 p.m. Graduation Exercises

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General Administration

Board of Trustees

Administrative Officers

GENERAL ADMINISTRATION

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Of State Institutions of Higher Learning, State of Mississippi

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KENNETH ELMO SMITH, B.B.A., M.S., C.P.A. ..... Chief Accountant

JESSE AUSTIN GORE ..... Manager of University Bookstore

JESSE BOYD ..... Director of University Commons

ROBERT HERRINGTON, Jr., B.S. ..... Director of Personnel Services

CECIL MARSHALL KLUTTS, B.S. ..... Purchasing Agent

INTERCOLLEGIATE ATHLETICS

ROLAND HALL DALE, B.S. ..... Director

CELESTAIN JOSEPH PETER TAYLOR, B.S., M.S. ..... Assistant Athletic Director and Head Baseball Coach

THURMON L. COLLINS, JR., B.S. ..... Head Football Coach

EUGENE WARREN CLARK, B.S. ..... Basketball Coach

ROBERT HAYS CLEVELAND, B.S. ..... Sports Information Director

OFFICE OF THE VICE PRESIDENT FOR STUDENT AFFAIRS

PETER EASTON DURKEE, A.B., M.A., Ph.D. ..... Vice President

WILLIAM RADER GRANTHAM, B.S., M.A. ..... Dean of Students

BILL WAYNE SHAFER, B.S., M.Ed., Ph.D. ..... Director of Student Counseling

HOMER ELTON SULLIVAN, JR., B.S. in B.A. ..... Director of Housing

WARREN DUNN, B.S., M.S. ..... Director of Student Union and Student Activities

BOYD ALEXANDER KELLET, M.D. ..... Director of Health Services

WILLIE VERNON OUBRE, B.S. ..... Director of Campus Security

GRAHAM LEE HALES, JR., B.A., B.D., Ph.D. ..... Chaplain and Coordinator of Religious Activities

WALTER OLIVER CONN, B.S., M.S..... Director of Student Aid and Scholarships

CARL CONN LAWRENCE, B.S..... Director of Placement Bureau

*STANDING UNIVERSITY COMMITTEES, 1975-1976

ACADEMIC COUNCIL: Lucas, C. Moorman, Albertson, Barnes, E. Bedenbaugh, J. Berry, Bourgeois, Bowman, F. Brown, Burton, Cooper, Davidson, Fike, Fruge', Gibbs, Glick, A. Gower, Greene, Gunn, Harkins, P. Hawkins, E. Howell, Ivy, Jeter, R. Johnson, Jr., E. Lewis, Mannoni, McCarthy, McKee, Montgomery, Moorer, Morrell, Munsell, Oliver, Panko, Sharp, Thames, van Aller, three student members.

ADMISSIONS and CREDITS (Undergraduate): Saucier, J. B. Brechtel, Cooper, A. Jordan, Fike, Gibbs, Greene, Gunn, Harkins, Mannoni, Montgomery, C. Moorman, Thames, one student member.

ADMISSIONS and CREDITS (Graduate): Saucier, Cooper, Fike, Gibbs, Glick, Greene, Gunn, Harkins, Mannoni, Montgomery, C. Moorman, Thames, van Aller, one student member.

ATHLETICS: Milan, Albers, Cooper, B. R. Green, Montgomery, Saucier, Smalling, Switzer, Thames, Weatherford, one student member.

AUDITORIUM: C. Moorman, Kay, R. Johnson, Mannoni, R. Prenshaw, B. Quarnstrom, Skidmore, Smalling.

CALENDAR: C. Moorman, Cooper, R. Dale, Durkee, Fike, Gibbs, Ginn, Glick, R. Grantham, Greene, Gunn, Harkins, R. Johnson, Mannoni, McPhail, Montgomery, R. Prenshaw, Saucier, Smalling, Thames, van Aller, two representatives from the Associated Student Body.

COMMENCEMENT: C. Moorman, Cooper, Fike, Gibbs, Glick, Greene, Gunn, Hales, Harkins, Irish, R. Johnson, Mannoni, McCracken, Montgomery, Ogletree, B. Quarnstrom, Smalling, Thames, van Aller, four student members.

EXTENSION AND PUBLIC SERVICE: Ginn, Bain, Hamman, W. Hughes, Larson, Montgomery, C. Moorman, H. Peddicord, Saucier, Stegenga, Traylor, van Aller, Ward.

FACULTY BENEFITS: A. Kelley, C. Brent, J. L. Davis, Gonzales, A. Gower, Hatcher, Jackson, Jaeger, Milam, Sharp, Welker, Wimberly.

FACULTY RESEARCH COUNCIL: Pound, Babin, Balmat, Galbraith, Kazelskis, Lowe, McCarthy, Sanchez, D. C. Williams, van Aller, Yarbrough.

FRATERNITIES AND SORORITIES: Durkee, J. B. Brechtel, Conn, V. Hill, McCarty, Munn, H. L. Rogers, Ross, Stout, the president of the Interfraternity Council, the president of the Panhellenic Council.

GRADUATE COUNCIL: van Aller, Anglin, Donovan, Ginn, Gottleber, Hamman, McDaniel, H. Peddicord, Saxon, Slay, M. Smith, Tracy, Yarbrough.

HOUSING: Durkee, R. Grantham, Jaeger, R. Johnson, A. Jordan, Smalling, H. Sullivan, two student members.

LIBRARY: W. Tracy, Balmat, Barnes, Bowers, Bowman, Iva Brown, Compton, Ginn, Gonzales, A. Gower, Hamman, Hawkridge, Lowe, B. Moore, Clements, van Aller, three student members.

PUBLIC RELATIONS: Kirkpatrick, Ardoin, Cleveland, Galbraith, R. Johnson, Mannoni, Ogletree, R. Prenshaw, Saucier, one student member.

REGISTRATION: Montgomery, Cooper, R. Dale, Durkee, Fike, Ginn, Glick, Greene, Gunn, Irish, Jaeger, McCracken, C. Moorman, R. Prenshaw, Saucier, Smalling, Thames, van Aller, two student members.

RELIGIOUS ACTIVITIES: F. Wood, Bonner, Fish, G. Hales, Ogletree, Orange, C. Sullivan, van Aller, the president of the Student Religious Federation.

STUDENT AID AND SCHOLARSHIPS: Durkee, M. C. Brown, Burge, Conn, R. Grantham, Jaeger, R. Johnson, Montgomery, Ogletree, Post, Saucier, one student member.

STUDENT ACTIVITY COMMITTEE: Dunn, J. B. Brechtel, R. Grantham, A. Jordan, Post, Ross, the president of the Interfraternity Council, the president of the Panhellenic Council, the UAC president, the Residence Hall Council president, the ASB president, or their representative.

TEACHER EDUCATION COUNCIL: Gunn, C. Moorman, B. Davis, McPhail, H. Peddicord, College or School representatives, one student member.

TENURE: Burrus, Easterling, Kenamond, R. W. King, Lok, Slay, Stegenga.

UNIVERSITY COUNCIL: Lucas, Alcorn, J. Anglin, Ardoin, Bain, E. H. Bedenbaugh, J. H. Bedenbaugh, Benjamin, Black, Bonner, Boroughs, Bourgeois, Bowman, C. R. Brent, Brundage, Burchell, Burns, Burrus, Carlton, Carnovale, W. Carr, Carter, Caveny, W. Cooper, J. Dale, R. Dale, Daniels, Durkee, Faulkinberry, Fike, Fletcher, Foltz, Fruge', Gibbs, Ginn, Glick, Gonzales, B. Grantham, R. Green, Greene, Gunn, Hall, Hamman, Harkins, Hatcher, Howell, Hughes, Irby, Irish, M. C. Johnson, R. Johnson, R. Johnson, Jr., Kay, Kenamond, Kirkpatrick, Larson, Leonard, Lok, Lowe, Mannoni, McCarthy, McCracken, McPhail, Montgomery, R. Moore, C. Moorman, J. Morgan, Musgrave, Nau, Ogletree, O'Hare, Orange, Paulson, P. Peddicord, Plue, Poirier, P. Prenshaw, B. Quarnstrom, Rhodes, W. M. Roberts, Saucier, Sharkey, W. Sirmon, J. R. Skates, Smalling, M. Smith, Stocks, Thames, Thomas, W. Tracy, van Aller, Vreeland, Welker, Wertz, Wildman, Wimberly, Woolf, Yarbrough, the president of the Associate Student Body, the president of the Student Senate.

UNIVERSITY UNION: Durkee, Dunn, R. Grantham, Hartwig, A. Jordan, Ogletree, the president of the Interfraternity Council, the president of the Panhellenic Council, the 1st and 2nd vice presidents of the Associated Student Body.

UNIVERSITY HONORS COUNCIL: Kay, Bowers, C. Brent, M. C. Brown, S. Carpenter, Clements, Dunigan, H. Easterling, Fike, Gonzales, A. Gower, Gunn, R. Johnson, Jr., McCarthy, Milner, R. Moorman, E. Neumann, Pessoney, Quarnstrom, Tharpe, one student representative from each Honors Class.

UNIVERSITY PRESS COMMITTEE: Gonzales, Hatcher, B. Anderson.

* The President of the University is ex-officio member of all committees. The person named first on each committee is chairman of the committee.

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GENERAL INFORMATION

Historical

The University of Southern Mississippi was established by an act of the Legislature approved on March 30, 1910, by Governor Edmund F. Noel. Its first name was the Mississippi Normal College. Its original purpose was to train teachers for the rural schools of Mississippi.

The act of March 30, 1910, did not provide any state money for the building of Mississippi Normal College, but did provide that localities in the state might bid for its location by offering land for a site and money for constructing buildings. On September 16, 1910, the Board of Trustees accepted the bid of Hattiesburg and Forrest County to supply $250,000.00 and a free site. That site was west of the city in cut-over timberland with great pine stumps everywhere. Contracts were let to clear the land and to build buildings.

The five permanent buildings (College Hall, Forrest County Hall, Hattiesburg Hall, the Industrial Cottage [now the Honor House], and the President's Home), a temporary wooden Dining Hall, and other necessary improvements were barely finished when the Mississippi Normal College opened on the rainy morning of September 18, 1912, with a president, a faculty of eighteen, and a student body of 220.

On October 17,1911, Joseph Anderson Cook, Superintendent of Schools, Columbus, Mississippi, was elected president. The University of Southern Mississippi has had only six presidents during the more than sixty years since its founding. The Board of Trustees elected Claude Bennett president effective October 10, 1928. On April 23, 1933, the Board of Trustees elected Dr. Jennings Burton George as the third president, effective July 1, 1933. On June 13, 1945, the Board of Trustees elected Dr. Robert Cecil Cook as the fourth president and he officially assumed office on July 1, 1945. On October 21, 1954, President Cook submitted his resignation. He served until December 31, 1954, and Dr. Richard Aubrey McLemore became acting president on January 1, 1955. The Board of Trustees, on May 19, 1955, elected Dr. William David McCain as the fifth president. He officially assumed office on August 1, 1955, and retired as of June 30, 1975. Dr. Aubrey Keith Lucas became the sixth president of the University on July 1, 1975.

As has been stated, the University of Southern Mississippi was founded on March 30, 1910, as the Mississippi Normal College. On March 7, 1924, the Legislature changed the name to State Teachers College. On February 8, 1940, the Legislature changed the name to Mississippi Southern College, and on February 27, 1962, the Legislature changed the name to the University of Southern Mississippi.

The Mississippi Normal College did not grant degrees in its early years, but awarded certificates for the completion of certain specified courses of study. On April 8, 1922, the Legislature authorized the awarding of the Bachelor of Science degree. The Bachelor of Music degree was authorized by the Board of Trustees on June 19, 1934. The first Bachelor of Arts degree was awarded on August 20, 1940. On May 26, 1947, the Board of Trustees of State Institutions of Higher Learning authorized the initiation of graduate work and the awarding of the Master of Arts. Doctoral programs were first authorized by the Board of Trustees on May 20, 1959. Numerous other degree programs have been authorized during the past twenty years.

The administrative and academic organization of the University of Southern Mississippi is basic and relatively simple. This reorganization took place in 1957. The Dean of the University is responsible for the academic program. The Dean of students is responsible for student affairs. The Financial Secretary is responsible for financial affairs and operations. The Director of Intercollegiate Athletics is responsible for the athletic program. The academic area of the University of Southern Mississippi is organized into the College of Business Administration, the College of Education and Psychology, the College of Fine Arts, the College of Liberal Arts, the College of Science and Technology, the School of Home Economics, the School of Health, Physical Education, and Recreation, the School of Nursing, the Graduate School, the School of Social Work, and the Division of Extension and Public Service.

There has been a great increase in enrollment since the end of World War II. There were 303 students here in September, 1945, and over 9500 in September, 1975, on the Hattiesburg campus. The enrollment for the Hattiesburg, Gulf Park, and Natchez campuses was over 11,000 in 1975.

The number of graduates is some measure of the growth of a university. The University of Southern Mississippi has awarded 36,388 degrees since the first one was conferred in 1922.

There has been great improvement in the faculty during the past sixty-three years. In 1912 only one member of the faculty had a master's degree. During the 1974-1975 session, the University employed on all its campuses 542 full-time and 72 part-time faculty members, a number of the latter being teaching administrators. The doctoral degree was held by 279 full-time faculty members and by 39 part-time faculty members.

Research has been strengthened at the University of Southern Mississippi in several ways: the number of doctoral degrees has been increased; the University has established its own scholarly journals—*The Southern Quarterly* and *The Southern Journal of Educational Research;* the Computer Center has been equipped to expedite contracts and faculty research; the Office of Research and Projects has been established by the University to promote research and to assist faculty members in their research activities; and the University of Southern Mississippi is a participating member of the University Press of Mississippi established on May 1, 1970. For further information on the University's research program, see the **Graduate Bulletin.**

The University of Southern Mississippi was established by the State of Mississippi, is owned by the State of Mississippi, and is operated and financed by the State of Mississippi. Its first Board of Trustees was established by the legislative act of March 30, 1910, and that board governed only this one institution. On February 2, 1932, the Legislature established the Board of Trustees of State Institutions of Higher Learning and placed under its jurisdiction the five colleges and one university owned and operated by the state. On November 3, 1942, the people of the state voted to make the Board of Trustees of State Institutions of Higher Learning a constitutional board for all colleges and universities of the state. The University of Southern Mississippi is now operated under the jurisdiction of that constitutional board.

Beginning the Fall Quarter, 1972, credit was awarded in terms of semester rather than the traditional quarter hours although the University continues to operate on a quarter calender, thus regularizing the credit system throughout the state's university system.

PURPOSES OF THE UNIVERSITY

The University of Southern Mississippi believes that its fundamental mission is to fulfill the educational needs of the people in its changing state and region. To meet these needs the University is a dynamic, multi-purpose, career-oriented institution, committed to excellence in its programs and services. As such, the University sees its purpose as threefold: teaching, research, and service. The broad area of teaching is the primary purpose of the University of Southern Mississippi. While research is important, its role is that of serving, supporting, and complementing teaching. Through service, the University seeks to incorporate the resources of knowledge, skills, and artistry into the mainstream of the society it serves.

In the design of its programs and in its operations, the University is committed to those policies and practices which are consistent with and supportive of these purposes.

UNIVERSITY PRESS OF MISSISSIPPI

The University Press of Mississippi was founded in 1970 to encourage the dissemination of the fruits of research and study through the publication of scholarly works. Functioning as the scholarly publishing arm of the state-supported universities in Mississippi, the University Press is governed by a Board of Directors made up of one representative from each of the eight state universities, one representative from the Board of Trustees of Institutions of Higher Learning, and the director of the Press.

The University Press publishes between ten and twenty books each year. Primary areas of interest are Mississippi history and literature, but manuscripts in all areas of study are welcomed.

Administrative offices of the University Press are located in the Education and Research Center of Mississippi, 3825 Ridgewood Road, Jackson, Mississippi.

ADMISSION REQUIREMENTS AND PROCEDURES

ALL COMMUNICATIONS regarding entrance to the undergraduate colleges and schools of the University should be addressed to the Director of Admissions, University of Southern Mississippi, Southern Station, Box 11, Hattiesburg, Miss. 39401.

Eligibility for admission cannot be determined until the application, ACT score, and scholastic records have been submitted. These items should be received before the deadline date of the quarter for which the student is applying (see Calendar). The academic record, character, and conditions of application of the applicant must be in accordance with the rules and regulations of the Board of Trustees of State Institutions of Higher Learning and with the laws of the State of Mississippi. The applicant must have excellent moral character and must be willing to conduct his or her affairs so as to be a credit to the University. The University reserves the right to cancel the admission or registration of an individual whose attendance at the University, in the opinion of the appropriate administrative officer and the President, would not be mutually beneficial to himself and to the institution. Applicants should note carefully the law governing legal residence and the penalty for falsifying residence information. The law appears in the STUDENT EXPENSES Section of this **Bulletin. The University of Southern Mississippi does not discriminate on grounds of sex, race, color, religion, or national origin.**

APPLICATION PROCEDURES FOR FRESHMEN

HOW TO APPLY

Each freshman applicant is required to:

1. Present an application for admission.
2. Have ACT scores sent to the Director of Admissions. The applicant should have a composite standard score of fifteen (15). Any exceptions must be approved by the Director of Admissions or the Admissions and Credits Committee.
3. Request that his high school send an official transcript of his record to the Director of Admissions.

When the application, transcript, and ACT results have been received, the Office of Admissions will send to the applicant notice of eligibility or ineligibility for admission. When the student applies early in his senior year, a notice of eligibility is issued as soon as processing is completed. This preliminary notice is all that the student needs for **planning** purposes, subject only to completion of his high school program.

WHEN TO APPLY

A high school student, especially one who also is applying for financial aid, is urged to apply for admission and financial aid early in his senior year. The applicant should have his high school mail to the Director of Admissions a transcript complete for his first six semesters. A student who applies during his final senior semester should provide a transcript complete for the first seven semesters. The deadline for receipt of applications and all required credentials, including results of the American College Test, is twenty (20) days in advance of the session for which the application is being made. An application is processed as soon as possible after all required items are available. A notification of admission is then issued to the admissable student.

EARLY ADMISSION

The University will admit a limited number of highly qualified applicants after completion of the junior year of high school. To be considered for early admission, the applicant must have achieved an exceptional record on a minimum of fifteen (15) units in an accredited high school, have the unqualified recommendation of his principal or headmaster, and have achieved a score of twenty-three (23) on the American College Test. A personal interview with the Director of Admissions is required before a decision is made.

ADMISSION BY EXAMINATION

A student **twenty years of age or older** who has not been graduated from high school may be admitted if he achieves a standard score of forty (40) on each of the five tests or an average standard score of forty-five (45) on all five tests of the high-school-level General Educational Development Tests and meets all other University requirements.

TRANSFER STUDENTS

HOW TO APPLY

Each new student who has attended other colleges or universities and who is seeking admission to an undergraduate college or school is required to file with the Office of Admissions an application for admission (form to be obtained from that office). He should also request the authorities at each institution attended to send an official transcript of his record to the Director of Admissions. The student who is applying with fewer than twelve (12) semester hours of college credit acceptable by this University must also have sent to the Director of Admissions his official scores on the American College Tests. No application will be processed until all required items, including the ACT where applicable, are on file. Any exceptions must be approved by the Director of Admissions.

A student currently enrolled in another institution at the time he makes application and applying for admission for the following session to one of the undergraduate colleges or schools of this University should arrange to have forwarded to the Director of Admissions an official transcript which includes a listing of courses in progress as well as all completed work. On the basis of these partial credentials, a determination of admission status will be made pending receipt of the final transcript, thus enabling the student to make definite his plans for transfer. Transfer credit is accepted only from the institutions of higher learning which are accredited by a regional accrediting agency or the Mississippi Association of Colleges. Students entering from non-accredited institutions will be accepted as guest students for one quarter (12 hours); at the end of that quarter their status will be determined on the basis of their performance at the University of Southern Mississippi.

The student must indicate on the application all previous college attendance. An applicant is not permitted to ignore previous college attendance or enrollment. A student found guilty of non-disclosure or misrepresentation in filling out the admission application form, or a student who finds after admission or enrollment that he is ineligible for academic or any other reason to return to his last institution and who fails to report this immediately to the Admissions Office, will be subject to disciplinary action, including possible dismissal from the University.

WHEN TO APPLY

The application, required credentials, and ACT results (when applicable) must be on file in the Admissions Office not less than twenty (20) days in advance of the session for which application is being made.

ADMISSION PROCEDURE

When the application, all required credentials, and the ACT results (if applicable) have been received, the Office of Admissions will send to the applicant a notice of eligibility, or ineligibility, for admission.

An evaluation of the transferred credit will be completed as soon as possible after the admission has been determined. If the student receives his evaluation prior to registration, he should retain it for use during advisement. If he does not receive his evaluation prior to registration, he should contact the Admissions Office as soon as possible after his arrival on campus.

REGULATIONS

The University requires a grade average of C in all previous college work. The applications of students whose records do not meet the indicated requirements may be subject to review by the Director of Admissions or the Admissions and Credits Committee.

A student under academic suspension from another college or university may not enter the University of Southern Mississippi during the term of his suspension. Upon termination of the suspension period there is no bar to admission, if he is eligible in other ways.

In general, students under disciplinary suspension are not admitted to the University of Southern Mississippi.

Students from fully accredited institutions ordinarily will be given full credit for work transferred into the University, insofar as the courses taken are the same as, or equivalent to, courses offered in the college in which the student enrolls in this institution.

Credits transferred from an accredited junior college will be accepted as determined by the college or school in which the student is enrolled. In accepting junior college credits, no courses will be considered as above sophomore level. Credit earned in institutions which have not been fully accredited is usually accepted on the same basis as by the state university of the state in which the institution is situated. When acceptance of credit on a validation basis is indicated, the student will be required to validate such credit by at least a 2.0 index on his first 15 semester hours of residency study here. Where it seems proper, examinations for the validation of credit may be required.

TRANSFER CREDITS

Credits transferred from accredited institutions are reproduced on the permanent records of the University of Southern Mississippi. This action is evidence that the credits are considered valid. **Validity,** however, is not to be confused with **acceptability** or **applicability.**

Applicability of transfer work depends upon the coincidence of transfer credits with the requirements of a particular curriculum. **Applicability** varies from curriculum to curriculum, not only for transfer students from other institutions but for students transferring from one school or curriculum to another within the University of Southern Mississippi. In either case the upper limit of the number of applicable credits is the number of accepted credits. Applicability is determined by the dean of the college or school to which one is admitted.

Transfer hours passed will be accepted. To meet graduation requirements transfer students must have an overall C average, calculated by the method currently in use at the University of Southern Mississippi, on all hours scheduled and rescheduled at all institutions attended, including the University of Southern Mississippi. Excessive quality points earned at other institutions can not be used to offset any deficiencies at the University of Southern Mississippi. **Acceptance of junior college work is limited to one-half of the total requirements for graduation in a given curriculum. The last half of the total hours applied toward graduation must be earned in a senior college.** (See also "Graduation and Degrees.")

A maximum of sixty-four (64) semester hours of credit earned through Credit by Examination, independent study courses, extension courses, and educational experiences in the armed forces combined may be counted toward a degree at the University of Southern Mississippi. No more than thirty-two (32) semester hours earned by independent study and/or extension may be used. No more than thirty-six (36) semester hours in a degree program may be earned through Credit by Examination.

Credit will not be granted for college courses carried at another institution of college level, when a student is enrolled for residence credit in this University, except upon prior written approval of the dean of the college or university in which the student is enrolled.

ACCEPTANCE OF MILITARY CREDIT

1. The General Educational Development Tests at the High School Level are accepted in lieu of a high school diploma.
2. Credit for military schools and educational experiences in the armed forces is awarded on the basis of recommendations of the American Council on Education.
3. Correspondence and/or extension courses, including USAFI college level courses, may be applied toward a degree up to a maximum of thirty-two (32) semester hours. No more than nine (9) semester hours of correspondence (USAFI) work may be earned in any one field.

4. Credit from The Community College of the Air Force is accepted toward a degree.

5. A maximum of sixty-four (64) semester hours of credit earned by independent study, extension, and military experience combined may be applied toward a degree.

REQUIREMENTS FOR MILITARY PERSONNEL:

THE "BOOTSTRAP" PROGRAM

Military personnel on active duty who attend the University on the "Bootstrap" Program may complete degree requirements with thirty (30) semester hours of work on the Hattiesburg campus, provided all other degree requirements have been fulfilled. This amount of work may be done in two quarters (six calendar months), but many students attend for nine months or longer. Graduate students will, of course, have to attend for at least nine months since they may transfer only six (6) semester hours from another institution.

In order to receive an official evaluation of credits to determine eligibility for "Bootstrap" attendance, the following educational credentials must be forwarded:

1. A properly executed military Form DD 295.
2. Official transcripts bearing the raised seal from each institution where credit has been earned.
3. Official transcripts and CLEP scores for courses completed through the United States Armed Forces Institute, Madison, Wisconsin.
4. Official high school transcript.
5. An application for admission should be submitted with the request for an evaluation.

All documents and correspondence should be directed to:

The Coordinator of Armed Forces Education
University of Southern Mississippi
Southern Station, Box 11
Hattiesburg, Mississippi 39401

NON-DEGREE STUDENTS

WHO MAY APPLY

In special cases the Director of Admissions may grant students non-degree status for the following reasons:

1. He did not meet requirements for regular admission before the deadline.
2. He did not meet requirements for regular admission.
3. He is enrolled in another university and desires to obtain credit to be transferred to the school in which he is seeking a degree.
4. He desires to take education courses leading to teacher certification.

REGULATIONS GOVERNING NON-DEGREE STUDENTS

Previous academic records are required of all applicants. Applicants for non-degree status are required to certify that they are not under suspension from any college or university. A student found guilty of non-disclosure or misrepresentation in filling out the admission application form, or a student who finds after admission or enrollment that he is ineligible for academic or any other reason to return to his last institution and who fails to report this immediately to the Admissions Office, will be subject to disciplinary action, including possible dismissal from the University.

The student registered in non-degree status is subject to all University regulations governing registration, attendance, and academic standing. Credit earned in non-degree status is recorded on the student's permanent record and may be applied in an undergraduate degree program when the student has satisfactorily established degree status by meeting the entrance requirements of the University and of the degree-granting college or school of his choice.

It is not the policy of the University to permit students from other countries who are in the United States on a student visa to register in non-degree status.

THIRTY-HOUR LIMITATION ON NON-DEGREE STATUS

A student is permitted to earn a maximum of thirty (30) semester hours of credit in non-degree status. No undergraduate college or school of the University will accept in a degree program in excess of thirty (30) semester hours earned while the student has been registered in non-degree status, nor is a college or school obligated to accept any hours earned in non-degree status which do not fulfill college or school degree requirements. The student who is approaching the thirty (30) hour limitation in non-degree status, if he wishes to continue taking courses for credit, should consult the Admissions Office concerning procedures required to establish regular degree status.

A non-degree student who desires continued enrollment must reapply for admission each quarter until the non-degree status is removed.

Non-degree students applying for regular status are required to follow admission procedures and to provide all items requested of transfer students.

REQUIREMENTS FOR FOREIGN STUDENTS:

REGULAR UNIVERSITY PROGRAMS

1. Foreign students without previous records at high schools, colleges, or universities within the United States must meet the requirements outlined above for admission as freshmen.
2. All applicants who are not citizens of an English-speaking country must furnish the Office of Admissions with a satisfactory score on the Test of English as a Foreign Language (TOEFL). A minimum score of 500 is required. Because it normally requires several months to process all necessary documents, foreign students should submit the application, official certificates, and detailed transcripts of record as soon as possible. Doing so will allow time for exchange of necessary correspondence and, if the applicant is admitted, will help him in obtaining the necessary passport visa in sufficient time.
3. Foreign students who have already attended colleges or universities within the United States must meet the requirements outlined above for admissions as transfer students. The Test of English as a Foreign Language (TOEFL) may be waived if the transfer student has successfully completed all freshman English requirements with an average of 2.0 or better.
4. A ten dollar ($10.00), non-refundable fee must accompany the application for admission of each foreign student.
5. All foreign students should direct documents and correspondence to:

   Foreign Student Admissions
   University of Southern Mississippi
   Southern Station, Box 5151
   Hattiesburg, Mississippi, U.S.A. 39401

CAREER DEVELOPMENT CENTER

The Career Development Center was established by the University to serve as an agency in which current and projected information about careers may be obtained and in which the individual may come to obtain directions for moving toward career objectives. In order to meet these needs, the Center provides the following services:

Career Information Service contains a collection of current and projected career related materials pertaining to a wide range of career fields of interest to citizens of the State of Mississippi.

Career Communication Service prepares, edits, and disseminates through various communication media career information and opportunities for use by the general public, students, counselors, teachers, administrators, ministers, and others.

Career Development Service assists individuals interested in career evaluation, establishing career directions, developing career strategies or career goals. This is accomplished through testing, planning, and consultation. A wide range of individual testing is undertaken by the Center to assist the individual in determining those personal characteristics that can be utilized in career planning. A Career Development Specialist will assist individuals in using test data, past experiences, and career data in making career plans. Consultation is provided with professionals that work with others in the area of career planning.

The services of the Career Development Center are available by contacting in person, by telephone, or by mail:

Career Development Center
Southern Station, Box 112
Phone: 226-7111
Hattiesburg, Mississippi 39401

ADVISEMENT

All new students are assigned to academic advisers and are given specific times to meet with their advisers for assistance in scheduling classes and planning programs of study to meet their individual needs. Assignment of advisers is based on the student's stated educational or career plans. Those students who have not established definite educational or career plans are assigned to counselors in the Office of Special Academic Services. The Office of Special Academic Services provides a continuing program of academic and career counseling for all students and prospective students of the University.

ORIENTATION AND PRE-REGISTRATION: FALL QUARTER

New fall freshmen and transfer students entering the University of Southern Mississippi are encouraged to participate in the summer orientation program, Mini Quarter. The orientation programs are designed to acquaint students with University structure, policies, procedures, physical layout, faculty, students, organizations, and academic programs. Activities scheduled during the program include: evaluation of credit for transfer students, placement testing, academic advisement, small group sessions, open-house for sororities, fraternities, religious organizations, scheduling classes, and registration. Students will pay fees upon return in the Fall.

Parents of freshmen are also invited to attend the summer orientation program, Mini Quarter. Special sessions are planned for parents which include University policies on finances, housing, student activities, educational and recreational opportunities, and academic programs. Panel discussions are planned for parents on current campus life.

THE ENGLISH LANGUAGE INSTITUTE

Students interested in attending the English Language Institute at the University of Southern Mississippi for intensified studies in English should direct all correspondence to:

The Director of the English Language Institute
University of Southern Mississippi
Southern Station, Box 65
Hattiesburg, Mississippi 39401

COOPERATIVE EDUCATION PROGRAM

The University offers for the first time during the 1976—1977 academic year a Cooperative Education Program. This program affords the student the opportunity to receive a total university education. This total education includes a combination of practical work experience and theoretical academic education.

Cooperative Education, a five-year program leading to a baccalaureate degree, includes opportunities to accumulate at least 75 weeks of work in a field closely related to the student's field of study.

For additional information, contact the
Cooperative Education Coordinator
Career Development Center
University of Southern Mississippi
Southern Station, Box 112
Hattiesburg, MS 39401, or telephone (601) 266-7111

STUDENT COUNSELING

The purpose of the Student Counseling Center is to assist each individual in deriving maximum benefit from his University experience and developing his full range of potentialities. The following professional counseling services are provided: vocational, educational, personal, and marital.

Students interested in choosing a major, exploring career choice, dealing with some aspects of personal or social development should feel free to contact the Center for an appointment. Everything that is said during a counseling interview is regarded as confidential. No information is released to any individual except with the approval of the student.

When appropriate, the student and the counselor may select tests to appraise abilities, interests, or personality characteristics. A library of educational and occupational information is maintained. College catalogs from other institutions and many books and pamphlets on educational and personal adjustment are also available.

Besides assisting students on an individual basis, the Center provides group study skills training to enable students to handle their academic pursuits better. How to organize study time, how to take notes, and how to take examinations are a few of the topics covered.

The Center provides growth experiences for students. Primary goals of these experiences are developing the student's ability to communicate and enhancing his skills in interpersonal relationships. The goal, therefore, is to provide students a chance to obtain insight into their own behavior and the behavior of others in the context of a group experience.

The Center staff is available to work with campus groups in providing leadership or communication training. The primary goals of these groups are to improve leadership abilities and to enhance the communication function in organized group activity.

The Center is located in Room 200, Student Services Building. It is open from 8:00 A.M. to 5:00 P.M., Monday through Friday. Any person who is enrolled or expects to enroll as a student may use the services without charge. Spouses of students often use the Center. In order to make an appointment, a student may come by the Center or call 266-7111 or write to:

Director of Student Counseling
University of Southern Mississippi
Southern Station, Box 75
Hattiesburg, Mississippi 39401

OFFICE OF VETERANS AFFAIRS

The Office of Veterans Affairs is responsible for providing assistance to veterans and dependents of eligible veterans that will enable them to derive the maximum benefit from their veterans educational entitlement. Specific activities of this office, include recruitment, outreach, counseling, tutorial assistance, basic education, and it sponsors the campus veterans organization.

OFFICE OF SPECIAL SERVICES

The Office of Special Services is responsible for providing educational assistance to students who are educationally and economically disadvantaged. This office is administering developmental programs to enhance these students' chances of deriving maximum benefit from their college experience. Specific services include counseling, tutoring, study skills, growth group activities, and the coordination of developmental education programs in English, mathematics, and reading.

THE STUDENT COMMUNITY
CAMPUS LIFE AND ACTIVITIES

STUDENT HOUSING

Resident Housing

Three thousand two hundred and sixty-three (3,263) spaces in air-conditioned residence halls and five hundred and forty nine (549) spaces in non-air-conditioned residence halls are available for students in thirteen (13) residence halls operated by the University. These include three residence halls which incorporate their own dining facilities (Hillcrest for women, Elam Arms for men, and Vann Hall for men on athletic scholarships). Elam Arms and Hillcrest have heated swimming pools. Bolton, Jones, Pulley, Roberts, and Wilber are the other air-conditioned residence halls for women. Scott and Bond are the other air-conditioned residence halls for men. Hattiesburg, Hickman, and Mississippi are the air-cooled residence halls for women.

When students occupy rooms in a residence hall, they obligate themselves to pay for one quarter's room rent for that hall. Refunds for unused portions of room rent will be made only in case of withdrawal from the University. Residence hall fees are subject to change without notice. It is the responsibility of the student to determine the amount of fees for the residence hall to which he is assigned.

Each resident will be asked to contribute to the Residence Hall Fund which is used to pay for Homecoming decorations, courtesies, and other residence hall-sponsored activities.

All regularly enrolled undergraduate students under 21 years of age are required to live in one of the residence halls, unless they are married or live with parents or legal guardian, or have completed 65 semester hours and have parental consent to live off campus.

Students found to be residing off campus in violation of the on-campus policy may be charged a full quarter's room rent regardless of the time during the quarter they are found to be in violation of the policy.

THE UNIVERSITY RESERVES THE RIGHT TO ENTER ROOMS FOR INSPECTION AND MAINTENANCE.

Assignments

Application for campus housing should be made at the time of application for admission to the University. Applications are processed in order of date received, and residence hall assignments are based on the date of application. Roommate preference may be indicated on the application form, and, when possible, these preferences will be granted. However, the application is for accommodations in the residence halls and *not* for a specific roommate. Assignments of new students (freshman and transfer) to residence halls can be made only after the $15.00 deposit with an application for housing has been received by the Housing Office.

Priority of residence hall assignments goes to enrolled and former students. Assignment of enrolled and former students will be made at the end of each quarter for the succeeding quarter.

Residence hall assignments are mailed at least 15 days prior to the first day of registration for each quarter. Those applying after the beginning of this fifteen-day period will receive a room assignment by mail if possible. If it is too late to mail the assignment, it may be secured at the Housing Office on the day the residence halls open.

Sorority members are expected to live in Wilber Hall, the Panhellenic Hall. Lodging in a fraternity house is available to the fraternity members and pledges. Arrangements are made directly with the fraternity.

During fall quarter, all residence halls will open at 8:00 a.m., two days prior to registration. Former students who have been assigned a specific room must claim their room by 5:00 p.m. on the first day. All other students must claim their room by 5:00 p.m. on the second day. During winter, spring, and summer quarters, the residence halls will open at noon, one day prior to registration. New students must claim their rooms by 5:00 p.m. on the day the halls open. Former students must claim their rooms by 5:00 p.m. on the first day of registration.

Changes between residence halls are made after registration with Housing Office approval. However, room changes may be made within the residence hall to which a student is assigned. **provided** the change has been **approved** by the Housing staff member of that residence hall and officially arranged in the Housing Office **before** the change is made.

Cancellations

Any person cancelling his reservation 15 days prior to the first day of registration will be refunded the $15.00 deposit. Those failing to cancel prior to the 15 days will forfeit the deposit. Cancellations must be made in writing.

Any person failing to claim his room by the time indicated above will forfeit the deposit.

All checks or money orders for housing deposits should be made out to the University of Southern Mississippi and mailed to:

The Director of Housing
University of Southern Mississippi
Southern Station, Box 64
Hattiesburg, Mississippi 39401

Other information concerning housing is available in the housing brochure.

Family Housing

Pine Haven Apartments, consisting of two hundred and ninety-six (296) one-two-and three-bedroom unfurnished units, are available on the campus for married students. A long waiting list exists each quarter. An applicant's position on the list is determined by the date of receipt of the application and deposit.

A quarterly housing fee is payable at the beginning of the quarter. The rent is due and payable at registration. A student obligates himself to the full fee for one quarter's rent when he moves in, unless he withdraws from the University. A deposit of $15.00 is required at the time of application and is refundable if the request is cancelled thirty (30) days prior to the date for which the application is made.

Applications and brochures may be secured at the Pine Haven Office, or by writing to the Director of Housing.

Correct Address

Students are required at registration to give their correct local address. It is the responsibility of each student to notify the Registrar's Office of any change of address as soon as the change occurs.

Food Service

All persons living in residence halls are expected to purchase a meal ticket for one of the food service facilities on campus. The Food Service Department serves well-planned, attractive meals which include a choice of two entrees, assorted vegetables, and self-service beverage and salad bars. The University Commons dining hall is available to all students except those who live in Hillcrest and Elam Arms. Residents of these two residence halls must purchase meal tickets for these dining halls.

A special diet program is offered for weight watchers at a cost of $25 extra per quarter. The meal ticket is a twenty-meal/week contract and begins on the first day of registration and continues until the end of the quarter. No supper is served Sunday evenings. The students pay cash for food service during the period of orientation and prior to the actual day of registration. A snack bar and grill is scheduled to open in the new Student Union building which will operate on an a la carte basis and will offer a wide variety of foods with fast service.

HEALTH AND SAFETY SERVICES

While away from home, the University Clinic is here to serve as your family doctor offering the same range of services available at his office. Overnight clinic accommodation for less serious illnesses is available at no cost to full-time students. Consultation and hospitalization services of the patient's choice are available on a referral basis. The Clinic services include physician and nursing care (provided at no cost to *full-time* student only) and laboratory, x-ray, and apothecary service, all available at cost.

During the regular school quarter the Clinic is open 24 hours a day, seven days a week and is staffed by registered nurses. Physicians' office hours are 9-12 and 1-5 Monday through Friday. The apothecary is open only during the physicians' office hours.

AUTOMOBILES ON CAMPUS

Students and employees of the University are required to register their automobiles with the Department of Campus Security. Temporary permits are issued when the automobile is to be on the campus less than fourteen days. Parking zones have been established along with other regulations. A brochure which outlines traffic and parking regulations may be secured from the Department of Campus Security. Penalties are assessed for violation of regulations and persistent violators may be denied the privilege of operating an automobile on campus.

Vehicle registration fees are per following schedule:

Automobiles–	beginning Fall Quarter to 31 August	$5.00
	beginning Winter Quarter to 31 August	4.00
	beginning Spring Quarter to 31 August	3.00
	beginning Summer Quarter to 31 August	2.00
Motorcycles–	beginning Fall Quarter to August 31	2.00
	beginning Spring Quarter to 31 August	1.00
Bicycles–	from registration to 31 August	1.00

STUDENT ACTIVITIES

The source of the extra curricular activities at the University of Southern Mississippi is the multitude of student organizations and activities.

Some one hundred forty-three student organizations, of almost as many purposes and objectives, grace the Southern scene. These organizations include all categories of participation: service, social, religious, professional, honorary, activity, on and on to provide an opportunity for almost any interested student to participate.

While these activities are outside of or "extra to" the formal curricula they are unquestionably a part of the student's total experience while he is enrolled at the University of Southern Mississippi.

In addition to the numerous student organizations, there are three groups which, by their representative function, serve the entire student body in their various capacities and areas. These groups are: Associated Student Body, University Activities Council, and Student Religious Federation.

While these groups are deliberative and purpose to represent the views and wishes of the entire student body, other student governing groups may be found in the residence halls, the fraternity and sorority system, and the international student community.

ASSOCIATED STUDENT BODY

The Associated Student Body of USM consists of every student enrolled in the University. It is structurally set up in government form, with executive, legislative, and judicial branches. The officers of the ASB comprise the executive branch, elected representatives from each school and college of the University make up the Senate or legislative branch, and the student courts comprise the judicial branch.

The ASB, however, is much more than a tightly structured student organization. It is an aid to the student in his University life, and his official voice in University affairs. In maintaining this position of responsibility, the ASB serves the student in special services and projects and represents him on various committees and boards.

These services include a scholarship directory, teacher evaluation booklet, *The Keyhole*, tutoring service, apartment directory, attorney referral program, campus advisory counselor, refrigerator rental, ride board, spouse card, discount directory, and tax service.

ASB projects include voter registration drives, Miss South Pageant, spirit activities and cheerleaders, the student handbook, *The Drawl,* legislative lobbying, recruiting committee, and a welcoming committee.

ASB officials represent the student body on the Academic Council, University Council, Disciplinary Committee, Athletic Continuity Committee, President's Board, Mayor's Student Board, Student Alumni Association, Student Aid and Scholarship Committee, Student Activity Committee, Library Committee, University Union Committee, and others.

The Associated Student Body is constantly trying to improve the existing programs and services and implement new ones. It also continually attempts to voice student concerns in University affairs. By doing this, the ASB strives to meet its goal of promoting the general welfare of students in all phases of their lives at USM.

STUDENT PUBLICATIONS

THE STUDENT PRINTZ, winner of many national awards, is the University newspaper published semi-weekly by a staff of students under the direction of faculty advisers. THE SOUTHERNER is a yearly publication, published by a student staff under the direction of a faculty adviser. CONTEMPORARY, issued yearly and sponsored by Lambda Iota Tau, represents the best of student endeavor in short stories, essays, and poetry. The DRAWL, a handbook for students, is published by the ASB.

RELIGIOUS LIFE

The University of Southern Mississippi is a state supported school and is entirely non-sectarian. Religious life is encouraged, and every effort is made to cooperate with local churches. The Student Religious Federation unifies the activities of all religious groups on the campus.

It is composed of students from the entire University community and seeks to provide channels for worship and religious development. Speakers, concerts, films, forums, and debates are some of its sponsored activities.

Religious Organizations—Association of Baptist Students, Baptist Student Union, Campus Crusade for Christ, Christian Science, Episcopal Students, Hallelujah Way, Inter-Varsity Christian Fellowship, Jewish Student Union/Hillel, Koinonia-Church of Christ, Latter Day Saints, Light House, Lutheran Fellowship, Maranatha, Newman Club-Roman Catholic, Student Religious Federation, Wesley-Methodist, Westminster-Presbyterian, Muslim Student League.

The office of the University Chaplain and Coordinator of Religious Affairs works with all campus religious groups in helping them to effect their ministeries. A dormitory ministry, program speakers, and resources are samples of its ministry.

Danforth Chapel is a place of prayer and meditation for all and is often used for worship services and weddings.

ORGANIZATIONS

General Honor Societies– There are five general honor societies on the campus. A general honor society is an association that receives into membership individuals who have achieved high scholarship and who fulfill such additional requirements of distinction in some broad field of education and culture or in general leadership as the society has established. Phi Kappa Phi is a national honor society composed of men and women who have achieved superior recognition for scholarship accorded by the University. Omicron Delta Kappa is a national honorary leadership society, membership in which is the highest recognition accorded students of the University. Phi Delta Rho is a local honorary leadership society, membership in which is the highest recognition accorded women students of the University. Alpha Lambda Delta, for women, and Phi Eta Sigma, for men, are national honor societies which aim to encourage and reward high scholastic attainment among freshman students.

Academic Honor Societies—Alpha Epsilon Alpha (accounting), Alpha Epsilon Delta (medicine), Alpha Phi Omega (service), Alpha Psi Omega (dramatics), American Chemical Society Student Affiliate, Student Chapter of American Marketing Association (marketing), Beta Beta Beta (biology), Delta Sigma Pi (business), CWENS (sophomore women), Home Economics Club, Kappa Delta Pi (education), Kappa Kappa Psi (band), Kappa Mu Epsilon (mathematics), Kappa Omicron Phi (hone economics), Lambda Iota Tau (literary), Mu Phi Epsilon (music), Omicron Delta Epsilon (economics), Orchesis (dance), Pershing Rifles Honor Society, Phi Alpha Theta (history), Phi Beta Lambda, Phi Delta Kappa (education), Phi Mu Alpha Sinfonia (music), Phi Chi Theta (women-business), Pi Delta Phi (French), Pi Gamma Mu (social science), Pi Kappa Lamba (music), Pi Omega Pi (business education), Pi Tau Chi (religion), Psi Chi (psychology), Rho Epsilon (real estate), Scabbard and Blade Society (military), Society of Advancement of Management, Tau Beta Sigma (band).

Religious Organizations, See page .

Service Organizations—Angel Flight, Arnold Air Society, Botegha, Business Fraternity Council, Del Sur Company of L'Esprit de Corps, Honors Student Association, Interfraternity Council, Junior Panhellenic Council, Little Sisters of Minerva, M Club, Panhellenic Council, Pen and Sword, Phi Lambda Pi, Social and Rehabilitation Club, Veterans Voice of USM.

Other Organizations—Afro-American Cultural Society, American Civil Liberties Union, Bienvenidos, Chinese Student Association of USM, Food and Nutrition Club, Golden Eagles Rugby Club, Graduate Association of Students in Psychology, Hattiesburg Bike Club, HPER, Library Science Student Association, Medical Technology Club, Progressive Student Association, School of Social Work Club, Society of Pre-Legal Students, Southern Geological Society, Southwestern Executive Sales Club, Student Alumni Association, Student Chapter of Music Educators National Conference, Student Nursing Association, the Coalition for Student Involvement, the Student Guild, USM Aquatics Club, USM Art Education Club, USM Doctoral Students in Education Administration and Supervision, USM Chapter of Council for Exceptional Children, USM Chapter of Lambda Alpha Epsilon, USM Collegiate Civitan, USM Community Chess Club, USM Cross Country Club, USM Divers Association, USM Sports Officials Association, USM Student Chapter of the Associated General Contractors of America, USM Student Speech and Hearing Association, USM Student Planning Network, USM Volleyball Club, USM Waterski Club, University Activities Council, Young Democrats, and Young Republicans.

Social Fraternities—Nine social fraternities hold membership in the Interfraternity Council of the University. They are Alpha Tau Omega, Kappa Alpha, Kappa Sigma, Omega Psi Phi, Pi Kappa Alpha, Phi Kappa Tau, Sigma Alpha Epsilon, Sigma Nu, and Sigma Phi Epsilon.

Social Sororities—Eleven social sororities hold membership in the Panhellenic Council of the University. They are Alpha Kappa Alpha, Alpha Sigma Alpha. Chi Omega, Delta Delta Delta, Delta Gamma, Delta Sigma Theta, Delta Zeta, Kappa Delta, Phi Mu, Pi Beta Phi, and Sigma Sigma Sigma.

Dramatic, Musical, and Other Performing Groups—The University's preeminence in the fine arts fields of theatre and music is reflected in the prominent role of student performing groups. The Debate Squad and the University's own radio station also encourage student performance.

THE UNIVERSITY THEATRE, open to all students of the University, is the campus dramatic organization sponsored by the Department of Theatre Arts.

THE CHORAL UNION, composed of students from the entire University, meets one evening a week to perform the great works in choral literature, both sacred and secular.

THE OPERA WORKSHOP, open to all students of the University, performs many works of musico-dramatic interest during the year.

THE UNIVERSITY SINGERS, auditions for which are held during the first week of each quarter, give numerous concerts and tours. There is usually a waiting list of

applicants for membership. Within the UNIVERSITY SINGERS are a number of smaller ensembles, such as the Madrigal Singers and various male and female groups.

The University's bands and orchestras have an outstanding record of service to the University and the state.

THE SYMPHONIC BAND, which gives several formal concerts each year of the finest and most difficult wind literature, is comprised of selected student musicians.

THE CONCERT BAND, open to all University students, plays a concert each spring and serves as a laboratory band for new publications and for student composers and conductors.

THE VARSITY BAND, open to all University students, plays a concert each spring and serves as a laboratory band for student composers and conductors.

THE MARCHING BAND, known as "THE PRIDE OF MISSISSIPPI," presents colorful halftime shows at the University football games and appears regularly on national television. It is open to all University students.

THE DIXIE DARLINGS, a precision drill group, open by audition to the best girl dancers of the University, are well-known nationally through their many televised appearances with the Marching Band.

THE CHAMBER ENSEMBLES perform serious programs of the best original music for smaller groups.

THE PERCUSSION CHOIR AND MARIMBA ENSEMBLE utilizes programs of original music for chamber percussion performance.

THE JAZZ LABORATORY BAND is a full-sized modern jazz ensemble which plays the latest arrangements of music in the big band contemporary idiom.

THE ROTC BAND, open by audition to freshman and sophomore ROTC students, provides music for ROTC functions.

THE UNIVERSITY OF SOUTHERN MISSISSIPPI SYMPHONY, open to all students and faculty members of the University, gives a number of concerts each year in addition to assisting with oratorios and operas.

Scholarships in all these musical groups are available to talented students. Auditions may be arranged through the Dean of the College of Fine Arts.

THE DEBATE SQUAD, recognized as one of the nation's best, is open to all students.

WMSU-AM is a University-owned carrier current radio station which broadcasts to the campus audience on 640 Khz. Students interested in working with the WMSU-AM staff should contact the Department of Radio, Television, and Film.

WMSU-FM is a University-owned educational radio station which broadcasts to the Hattiesburg area. The student staff is selected by open auditions under the direction of the faculty adviser. Students interested in seeking a position on WMSU-FM should contact the Department of Radio, Television, and Film.

ATHLETICS

The University of Southern Mississippi is a member of the National Collegiate Athletic Association.

Intercollegiate sports are football, basketball, baseball, tennis, and golf.

Seasonal intramural sports, under the supervision of personnel from the Department of Physical Education, give every student an opportunity to take part in competition. Among the sports included on the program are tennis, golf, touch football, basketball, softball, badminton, volleyball, handball, track, and swimming.

The University golf course, tennis courts, swimming pool, playgrounds, and gymnasium facilities are available to all students.

UNIVERSITY UNION

The center of student activities at the University of Southern Mississippi is the University Union, which houses the student organization offices, grill, recreational area, and meeting rooms. Students use the facilities of the University Union for recreation, social, and organizational activities.

The University Union provides the University students a complete program of activities planned and presented through the University Activities Council.

The University Activities Council (UAC) is made up of interested students selected through an application-interview procedure. UAC activities include all facets of collegiate programming, the more prominent of which are: weekly movies, concerts, lecturers, special events, and travel.

The University Activities Council is recognized throughout the Gulf South as one of the outstanding collegiate programming groups, budgeted on per-student fee basis that allows all students to attend **UAC** activities on the presentation of their student identification card, except for big name concerts when a nominal fee is charged.

Holding membership in the National Entertainment Conference and in the Association of College Union-International, the UAC keeps abreast of collegiate programming trends and developments throughout the nation, as well as the Gulf South.

STUDENT EXPENSES

The University of Southern Mississippi is supported chiefly by legislative appropriations. Increases in student fees are put into effect only when public support funds are inadequate and no other recourse is available. Increases are made only for support of the institution or improvement of the activity program of the students; therefore **the University must reserve the right to increase or modify fees and expenses without prior notice but with approval of the Board of Trustees of State Institutions of Higher Learning.**

Fees and expenses are in the form of incidental fees, room and board, and special fees.

INCIDENTAL FEE. This fee, together with the allocation from the legislative appropriation, is used for general support of the University. Athletic activities, health service, and UAC programs are not included for part-time students.

Full-time students for purposes of assessing fees are as follows: Graduate School, seven (7) or more semester hours; all other schools and colleges, nine (9) or more semester hours. Graduate students enrolled for more than thirteen (13) semester hours and undergraduate students enrolled for more than fourteen (14) semester hours will be assessed the applicable fee for each additional semester hour. (Students training under Veterans Administration programs are required to carry a minimum number of semester hours for the entire quarter to receive full subsistence. The requirements are seven (7) semester hours on the graduate level and nine (9) semester hours on the undergraduate level.)

Textbooks, except for textbooks in foreign language courses and certain other courses, are provided on a loan basis to all undergraduate students.

Clinical and hospital services covered by the health service charge included in the incidental fee are limited to cases of ordinary illness. Services are provided within the limits of the professional, technical, and physical resources of the Clinic. The University does not assume responsibility in cases of extended illness or for treatment of chronic diseases. Cases requiring surgery must be handled by a physician and hospital of the student's choice.

ROOM AND BOARD. The room and board fees are assessed for all students living in University-controlled residence halls and those students living in fraternity houses. All students rooming in residence halls or fraternity houses are required to take their meals in the University Commons.

A room deposit of $15.00 is payable in advance for the reservation of space in the residence halls. This amount is held as a breakage deposit until a student withdraws from the residence hall.

A student accepting residence hall space will be financially obligated to pay the full quarter's room rent. A refund of the residence hall fee will be made only upon withdrawal from the University.

OTHER FINANCIAL INFORMATION. Fees of all students are due and payable at time of registration; however, fees of students enrolled for **six semester hours or more** may be paid one-half upon entrance and the balance one week prior to the beginning of the second half of the quarter. This procedure applies on all campuses and resident center locations only.

The University reserves the right to withhold readmission to a student until all delinquent accounts have been paid. Transcripts of credits will not be issued for students whose accounts are delinquent.

Fines accumulated as a result of failure to adhere to the established procedures of the University, such as Library and Security regulations, or any other policy establishing regulations for the protection of University property, shall become collectible by the Business Office, and, if not collected, shall constitute a delinquent account.

Students whose checks for registration are returned will be assessed the late registration fee of $10.00.

Students who are permitted to register for independent study courses in residence will be charged a fee of $15.00 per semester hour.

A fee of $2.00 for operation of the University Union is included in the fees of all full-time students. A $1.00 fee is added to the incidental fee assessment of part of part-time students.

Courses requiring special fees and music fees are shown in the Special Fee listing (Table II).

A fee of $6.50 for **The Southerner** (University annual) is payable each school year by all full-time undergraduate students.

NON-RESIDENT STATUS. The Legislature of the State of Mississippi has passed the following legislation concerning non-resident status:

The board of trustees of each junior college in this state, the Board of Trustees of State Institutions of Higher Learning, and the administrative authorities of each institution governed by said boards, in ascertaining and determining the legal residence of and tuition to be charged any student applying for admission to such institutions, shall be governed by the following definitions and conditions:

Legal residence of a minor. The residence of a person less than twenty-one (21) years of age is that of the father. After the death of the father, the residence of the minor is that of the mother. If the parents are divorced, the residence of the minor is that of the parent who was granted custody by the court; or, if custody was not granted, the residence continues to be that of the father. If both parents are dead, the residence of the minor is that of the last surviving parent at the time of that parent's death, unless the minor lives with a legal guardian of his person, duly appointed by a proper court of Mississippi, in which case his residence becomes that of the guardian.

Legal residence of an adult. The residence of an adult is that place where he is domiciled, that is, the place where he actually physically resides with the intention of remaining there indefinitely or of returning there permanently when temporarily absent.

Removal of parents from Mississippi. If the parents of a minor who is enrolled as a student in an institution of higher learning move their legal residence from the State of Mississippi, the minor is immediately classified as a non-resident student.

Twelve months of residence required. No student may be admitted to any institution of higher learning as a resident of Mississippi unless his residence, as defined hereinabove, has been in the State of Mississippi for a continuous period of at least twelve (12) months immediately preceding his admission.

Residence in an educational institution not counted. A person who has entered the State of Mississippi from another state and enters an educational institution within twelve (12) months is considered a non-resident. For this reason, any period of time when such a person is enrolled in any educational institution in Mississippi may not be counted as any part of the twelve (12) months prerequisite to his admission to an institution of higher learning as a resident student. Even though he may have been legally adopted by a resident of Mississippi, or may have been a qualified voter, or a landowner, or may otherwise have sought to establish legal residence, such a person will still be considered as being a non-resident of Mississippi if he has entered this state for the purpose of enrolling in an educational institution.

Residence status of a married woman. A married woman may claim the residence status of her husband, or she may claim independent residence status under the same regulations, set forth above, as any other adult.

Children of parents who are employed by institutions of higher learning. Children of parents who are members of the faculty or staff of any institution under the jurisdiction of the board of trustees may be classified as residents during the time that their parents are such faculty or staff members without regard to the residence requirement of twelve (12) months, for the purpose of attendance at the institution where their parents are faculty or staff members.

Military personnel assigned an active duty station in Mississippi. Members of the armed forces on extended active duty and stationed within the State of Mississippi, except those military personnel whose active duty assignment in the State of Mississippi is for educational purposes, may be classified as residents, without regard to the residence requirement of twelve (12) months, for the purpose of attendance of state-supported institutions of higher learning and junior colleges of the State of Mississippi. Resident status of such military personnel who are not legal residents of Mississippi as defined under "Legal residence of an adult" in paragraph 2 above, shall terminate upon their reassignment for duty in the continental United States outside the State of Mississippi.

Children of military personnel. Resident status of children of members of the Armed Forces on extended active duty shall be that of the military parent for the purpose of attending State-supported institutions of higher learning and junior colleges of the State of Mississippi during the time that their military parents are stationed within the State of Mississippi and shall be continued through the time that military parents are stationed in an overseas area with last duty assignments within the State of Mississippi, excepting temporary training assignments en route from Mississippi. Resident status of minor children shall terminate upon reassignment under Permanent Change of Station Orders of their military parents for duty in the continental United States outside the State of Mississippi, excepting temporary training assignments en route from Mississippi.

Certification of residence of military personnel. A military person on active duty stationed in Mississippi who wishes to avail himself or his dependents of the provisions of paragraph 8, must submit a certificate from his military organization showing the name of the military member; the name of the department, if for a dependent; the name of the organization of assignment and its address (may be in the letterhead); that the military member will be on active duty stationed in Mississippi on the date of registration at the State-supported institution of higher learning or junior college of the State of Mississippi; that the military member is not on transfer orders; and the signature of the Commanding Officer, the Adjutant, or the Personnel Officer of the unit of assignment with signer's rank and title. A military certificate must be presented to the registrar of the State-supported institution of higher learning or junior college of the State of Mississippi each semester or tri-semester at (or within ten [10] days prior to) registration each semester for the provisions of paragraph 8 hereof to be effective.

Aliens. All aliens are classified as non-residents.

REFUND POLICY. A student who officially withdraws after enrollment may obtain a refund in accordance with the following:

a. A refund of 80% of incidental and special fees will be made to a student who withdraws within the week following the week of registration.

b. A student who withdraws for any reason prior to midterm of any quarter but after the week following the week of registration will be refunded 50% of the incidental and special fees.

c. A student who withdraws after midterm of any quarter will not be entitled to a refund of fees.

d. No adjustment of incidental and special fees will be made when courses are dropped after the week following the week of registration.

e. Room and board fees are refunded on the basis of full weeks remaining in the quarter.

TABLE I

EXPENSES EACH CALENDAR QUARTER

(All fees are subject to change without notice. See page 31.)

FULL-TIME STUDENTS

Fixed Fees

Incidental fee	$186.00
*Room rent—air conditioned residence halls	130.00
Room rent—other residence halls	110.00
*Board	145.00
*Note: Hillcrest (Room and Board)	310.00
Elam Arms (Room and Board)	310.00
Vann Hall (Room and Board)	295.00

Other Fees When Applicable

Non-resident fee	$233.00
The Southerner	6.50
Post Office box, per academic period	1.35

PART-TIME STUDENTS—**Each semester hour**

Incidental fee graduate student	$28.00
Incidental fee undergraduate student	22.00
Non-resident fee:	
Graduate student	34.00
Undergraduate student	26.00

Note: These part-time fees apply on all campuses.

TABLE II

SPECIAL FEES AND EXPENSES

Departmental Fees:

Audiovisual Education CIF 416	7.50 per course
Adult Education CIA 495	20.00 per course
Elementary Education 480, 482, 484, 492, 493 each	20.00 per course
Home Economics Education 403	20.00 per course
Special Education 480, 482, 483, 485, each	20.00 per course
Library Science 489	10.00 per course
Secondary Education CIS 481, 482, 483, 484, 485, 486, 487, 488, 489, 491, 492, 493, 494, 496	20.00 per course

Music Fees—Private Lessons for other than Full-time Music Majors:

1 quarter hour per instructor	$25.00 per quarter
2 quarter hours per instructor	50.00 per quarter
3 quarter hours per instructor	75.00 per quarter
Each additional supervised lesson	25.00 per quarter
*Orchestral or Band Instrument rental	6.00 per quarter

*This fee applies to music majors and minors as well as to other students.

Olliphant Honors Center

Fee for binding thesis	$5.25 each copy

Reading Center, Individual Remedial Instructions:

Special Students (Non-credit)	$25.00 per quarter
Complete Reading Diagnosis	20.00 with written report
Re-evaluation	5.00

Speech and Hearing Clinic Services:

Audiometric Pure Tone Test	$5.00
Diagnostic Hearing Evaluation	10.00
Acoustic Impedence Audiometry	$10.00
Hearing Aid Evaluation	15.00

Hearing Evaluation for Medical-Legal Compensation Claims	25.00	
Diagnostic Speech Evaluation	10.00	
Speech or Hearing Therapy fees per session	2.00	
Preschool Deaf Classes, per week	4.00	
Therapy for students, faculty, and staff and their families, per quarter	5.00	
Therapy fees for University students per quarter	5.00	
Examinations and Graduation:		
Challenge Examination	$10.00	
Revalidation Examination	5.00	when applicable
Special Examination	3.00	when applicable
Graduation Fee—Bachelor**	12.00	with application for degree
Certificate	2.75	when applicable
Extension and Public Service		
Off-Campus Center		
Undergraduate Course	$22.00	per semester hour
Graduate Course	28.00	per semester hour
Resident Center—laboratory fee	6.00	per course
Resident Center—typing fee	5.00	per course
Extension Center		
Undergraduate Course	22.00	per semester hour
Graduate Course	28.00	per semester hour
Independent Study Courses	20.00	per semester hour
High School Independent Study Courses	30.00	per half unit
Registration and Records:		
Change of Schedule	5.00	when applicable
Late Registration	10.00	
Evaluation Fee for Foreign Students (Non-refundable)	10.00	with application
Memorandum of Credits	.50	each
Transcript of Credits	1.00	when applicable

**Requests for refund of this fee will be based on circumstances existing at the time of request in accordance with policy on file.

STUDENT AID AND SCHOLARSHIPS

The following information is a summary of the student aid and scholarship program. For further information and application forms, write to:

Director of Student Aid and Scholarships
University of Southern Mississippi
Southern Station, Box 101
Hattiesburg, Mississippi 39401

APPLICATIONS. All applicants for student aid of any type must have been accepted for admission at the University before assistance can be granted. This does not preclude the submission of an application for assistance at the time application for admission to the University is made. Applications should be made before June 1st with one exception. Entering freshmen must apply by May 1.

PARENTS' CONFIDENTIAL STATEMENT REQUIRED

The University of Southern Mississippi participates in the College Scholarship Service (CSS) Financial Needs Analysis of the College Entrance Examination Board. Participants in CSS subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The CSS assists colleges and universities and other agencies in determining the student's need for financial assistance. All students seeking financial assistance are required to submit a copy of the Parents' Confidential

Statement (PCS) form to the College Scholarship Service, designating the University of Southern Mississippi as one of the recipients, by April 15. The PCS form may be obtained from a secondary school, or the College Scholarship Service, P. O. Box 176, Princeton, New Jersey 08540, or P. O. Box 1025, Berkeley, California 94704.
NOTE: The Parents' Confidential Statement alone is not an application for assistance. This statement is, however, a very important and necessary part of the application for the National Direct Student Loan, College Work-Study Program, and the Supplemental Educational Opportunity Grant Program.

BASIC EDUCATIONAL OPPORTUNITY GRANT PROGRAM

The Basic Educational Opportunity Grant Program is a federal aid program designed to provide financial assistance to those who need it to attend post-high school educational institutions. **Basic Grants are intended to be the "floor" of a financial aid package and may be combined with other forms of financial assistance in order to meet the full costs of education.** The amount of a Basic Grant is determined on the basis of the student's and his family's financial resources.

All undergraduate students who began their post-high school education after April 1, 1973, are urged to apply for the Basic Grant. Applications may be obtained from high school counselors and at the Financial Aid Office. The application should be submitted for processing beginning March 1 each year.

Those students who apply for other financial assistance must submit their Basic Grant to the Student Aid Office before their applications can be reviewed. The Basic Grant Notification Report (called Student Eligibility Report), which you will receive from the Processing Center, must be submitted whether or not you have been determined eligible to receive a Basic Grant for that academic year.

STUDENT EMPLOYMENT ON CAMPUS. Student jobs are awarded during the month of August (and as vacancies occur during the school year) to those students who have applied for them. Students work from ten to fifteen hours per week. Student employees are paid the minimum wage. These student employees (approximately 400) are an important part of the working staff of the University, and their work must be done in a highly efficient manner. Applications received after August 1 cannot be considered for the fall quarter.

OFF-CAMPUS EMPLOYMENT. Work in town is available to many students. Employers often call the University for part-time workers. Students who have applied for this type work are referred to them. Approximately 500 students hold part-time positions in the city of Hattiesburg. Salaries vary according to the position held. Applications for work in town are received at any time during the year. Referrals are made as requests are received from employers.

MERIT SCHOLARSHIPS. Merit Scholarships, based on scholarly ability, are available in all fields of study. They range in value from $100.00 to $500.00 for the nine months. Students who have demonstrated outstanding ability in any particular field of study are encouraged to apply for one of these scholarships.

REGIONAL MERIT SCHOLARSHIPS. A limited number of Regional Merit (out-of-state) Scholarships are awarded to students of exceptional ability whose residence is outside the State of Mississippi. These scholarships are valued up to $700.00 for the nine months. This scholarship represents a waiver of non-resident fees.

SERVICE SCHOLARSHIPS. Service Scholarships are based on skill and ability. These scholarships are available in band and music as well as in athletics and range in value from $100.00 to over $500.00 for the nine months.

LOAN PROGRAMS. Loan programs, both short-term and long-term, are available to the student who needs to make use of them. The University administers the National Direct Student Loan, the Federally Insured Loan, and the Nursing Student Loan. Additional information may be obtained by writing the Director of Student Aid and Scholarships.

COLLEGE WORK-STUDY PROGRAM

Title I, Part C, of the Economic Opportunity Act of 1964 initiated the College Work-Study Program to stimulate and promote the part-time employment of students in institutions of higher education who are from low-income families or are in need of the earnings from such employment to pursue courses of study at such institutions. Primary consideration is given to those students from low-income families. Additional information may be obtained by writing the Director of Student Aid and Scholarships.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANTS

Supplemental Educational Opportunity Grants were authorized by the Higher Education Amendments of 1972. An institution may award a Supplemental Educational Opportunity Grant to a student only if it determines that such student: (1) is a national of the United States for other than a temporary purpose and intends to become a permanent resident; (2) has been accepted for enrollment as a full-time undergraduate student, or is in good standing and in full-time attendance as an undergraduate student; (3) shows evidence of academic or creative promise and capability of maintaining good standing in his course of study; (4) is of exceptional financial need; and (5) would not be financially able to attend the institution without a Supplemental Educational Opportunity Grant. A grant **may not** be given to any student for study beyond the **first four** years of full-time study.

LAW ENFORCEMENT EDUCATION PROGRAM

Title I, Part D., Section 406 of the Omnibus Crime Control and Safe Streets Act of 1968 (Public Law 90-351) authorized the establishment of the Law Enforcement Education Program.

The Law Enforcement Education Program provides assistance through both grants and loans. Both grants and/or loans are available to inservice law enforcement personnel. Pre-service applicants are eligible for loans only. Pre-law and law students are not eligible to participate in this program.

Additional information and application forms may be secured by writing:

Director of Research and Projects
Southern Station, Box 5157
Hattiesburg, Mississippi

ROTC SCHOLARSHIP PROGRAM

See Military Science and Aerospace Studies sections for scholarship information.

MARINE OFFICER PROGRAMS

Qualified students may apply for an officer program leading to a commission as a Second Lieutenant in the United States Marine Corps. Commissions are offered in both ground and aviation components. The Platoon Leaders Course (PLC) is offered to freshmen, sophomores and juniors who attend precommissioning training during the summer. Financial assistance and Flight Indoctrination Programs are available. Qualified seniors attend twelve weeks of training in the Officer Candidate Course (OCC) after graduation. For details, contact the Placement Office or the Marine Officer Selection Officer when he is on campus.

UNIVERSITY OF SOUTHERN MISSISSIPPI FOUNDATION

The University of Southern Mississippi Foundation is a Mississippi corporation whose sole purpose is to receive and manage gifts, contributions, and donations to the University of Southern Mississippi for educational purposes. It provides a centralized receptacle for receiving gifts of any nature to the University, handling these in a manner prescribed by the donor or in accordance with good business judgment, and making the gifts work for the growth and development of **Southern.** The Foundation is managed by a Board of Directors composed of former students and friends of the University.

The Foundation Charter was so drawn that assistance could be given to any area of development at **Southern** so long as it is used for educational purposes. Some of the long-range plans include: sponsoring research, sponsoring faculty chairs, supplementing faculty salaries, aiding the library, providing special equipment, making possible achievement awards for faculty and students, providing fellowships and scholarships, and contributing to the building of the physical plant.

During the early years of the Foundation, emphasis will be placed on securing scholarship funds. This is considered to be one of the greatest needs at the present time. The Foundation solicits the funds, but the awards are made by the University Scholarship Committee.

SCHOLARSHIPS AVAILABLE THROUGH THE FOUNDATION

Accounting Achievement Endowment—Scholarships to recognize achievement by accounting majors and other activities for the benefit of the Department of Accounting.

Alpha Psi Omega—Scholarships for students in the Department of Theatre Arts.

American Legion Post #139, Bay St. Louis—Scholarships for worthy undergraduate students who maintain **C** or better average with preference given to children of Post members who reside in Hancock County.

American Tung Growers Loan Fund—Provides rotating loans for junior, senior, and graduate students majoring in Polymer Science.

Associated General Contractors Scholarship of Mississippi Incorporated—Provides scholarships for the building construction technology program in the College of Science and Technology.

Oliver V. Austin—Deserving, undergraduate major in science.

Carrie Norton Herring Bennett—Fellowship to be awarded to a graduate student in the School of Home Economics upon the recommendation of the faculty of that School. Recipients must pay at least half of the sum received within two years of graduation or last attendance.

R. G. Bigelow—High academic, junior, senior, or graduate student who plans to teach.

S. H. Blair Scholarship—Award to any qualified student at USM who graduated from the Hattiesburg Public School System, in need of financial assistance, who is enrolled in the area of School Administration or area of Physical Education showing a preference for the coaching field—other than scholarship athletes.

Kathy Brown—Sponsored by Pen and Sword—Funds from this endowment program shall be awarded to: 1—Active military personnel or dependents of former USM bootstrappers; 2—Dependents of military personnel; or 3—Other eligibles.

Clyde C. Bryan—Music majors, sophomore or advance standing, good academic average, Baptist, financial need. Sponsored by Mr. and Mrs. J. D. Thomas of Hattiesburg. Two awarded.

Century Club—Scholarships for athletes.

Mrs. A. F. Chisholm—Capable and deserving student.

Citizens Bank, Columbia—Capable and deserving Marion County student.

Citizens Bank of Hattiesburg—Capable and deserving student with preference given to Forrest County and/or Mississippi.

William M. Colmer American Studies Scholarship—Recommendations will be made from American Studies Committee, Chairman, Department of Political Science, and Dean of the College of Liberal Arts for students in American Studies who demonstrate the ideals which Mr. Colmer held in love, loyalty, patriotism to his country.

Commercial National Bank and Trust Company, Laurel—Capable and deserving Jones County student.

Betty Dukes Craft—Sponsored by Forrest County Home Economics Alumnae and James K. Dukes, brother of Betty Dukes Craft. Outstanding student in Home Economics.

Distinguished Professor Award—Presented in the name of the Distinguished Professor of the Year in the same discipline.

Environmental Science Technology—Majors in this area.

W. R. Fairchild Construction Company—Capable and deserving students from Covington or Forrest County; and one in Accounting.

Faulkner Concrete Pipe Company, Hattiesburg—Merit and need.
First Citizens Bank & Trust Company, Poplarville, Scholarship—Awarded on a rotating basis to capable and deserving students in need of financial assistance with preference given to customers of the bank.
First Mississippi Corporation—Provide scholarships for students based on scholastic ability, achievement and need.
First Federal Savings and Loan Association, Hattiesburg—Economics or Finance.
First Federal Savings and Loan Association, Pascagoula-Moss Point—Capable and deserving Jackson County student.
First Mississippi National Bank, Hattiesburg—Best interest of the University with preference to surrounding area students. Economic need a factor. Ten awarded.
First National Bank of Laurel—Awarded to a resident of Covington, Jasper, Jones, Perry, Smith, or Wayne County.
Mr. and Mrs. L. Y. Foote Endowment—Best interest of the University with economic need a factor.
Forrest County Alumni Chapter—Capable and deserving Forrest County students.
Foxworth Bank, Columbia—Deserving Marion County student.
Bertha M. Fritzsche Graduate Fellowship—Outstanding student in Home Economics.
General Merit—Any student is eligible on merit basis; several given.
C. M. "Squatrock" Grantham—Provides scholarships for capable and deserving students in the real estate area.
Gulf National Bank, Gulfport—Hancock or Harrison County student with "B" average in high school with financial need.
Lester Haddox—Worthy and promising student from Marion, Amite, Lincoln, Pike, or Walthall County.
Clifford H. and Dr. Sarah L. Hagenson—To be awarded to a student majoring in early childhood education upon recommendation by College of Education and Psychology.
Hancock Bank, Gulfport—Junior or senior student residing in Hancock or Harrison County, majoring in Business Administration.
Harrison County Alumni Chapter—Capable and deserving Harrison County students.
Hattiesburg Federal Savings and Loan Association—Capable and deserving student; given in memory of deceased directors.
W. B. Harlan Memorial—Economic need, male student in Business Administration.
Hercules, Incorporated—Scholarships to be awarded to financially needy students in the College of Science and Technology beyond the sophomore year upon the advice of the dean; at least one to be awarded to a member of a minority race.
Fern R. Hesson—Scholarship for worthy undergraduate student in the field of School Food Services
Alma Hickman—Capable and needy student.
Jones County Alumni Chapter—Capable and deserving Jones County students; preference given to junior or senior students.
Junior Panhellenic Council—Scholarships for outstanding sorority women.
Eleanor and J. B. Kirkland—Provide scholarship assistance to capable and deserving students.
Mr. and Mrs. L. C. Kirkland Endowed Scholarship—Established in memory of their parents, Mr. and Mrs. George Tyson Brewster and Mr. and Lrs. Elijah Thomas Kirkland; to be awarded to capable and deserving students in need of financial assistance.
Ethel Whatley Kroker—Awarded to capable and deserving students with preference given to blood relatives, according to ability and financial need.
Mr. and Mrs. J. D. Lewis Endowment—Scholarship to be awarded on the basis of citizenship record, economic need, academic work, and Mississippian.
L & A Contracting Company—Capable and deserving student.
Lamar County Alumni Chapter—Capable and needy Lamar County student.
Laurel Federal Savings & Loan Association—To be awarded to a student majoring in Finance, Economics, or Business Administration who resides in Jones, Wayne, Jasper, Covington, Smith, Simpson or Perry County who needs financial assistance.

E. Lubritz—Capable and deserving junior or senior student majoring in Art Education.
Raymond Mannoni—Students majoring in the College of Fine Arts on merit basis.
Marion County Alumni Chapter—Honoring Doyle M. Coats and Miss Chrystelle Ford; to be presented to an outstanding Marion County student.
Medical Technology—Majors in this area.
Merchants Bank & Trust Company, Gulfport—Hancock or Harrison County student with preference to junior or senior in Business or Finance.
Mississippi Broadcasters Association—Radio-TV-Film major, resident of Mississippi, reasonable academic standing, financial need.
Movie Star Corporation—Capable and deserving student; preference given to children of employees.
William Walter Munson Memorial—Worthy boys and girls who are enrolled as regular students.
Nursing Scholarships—Capable and deserving students majoring in nursing.
George Robert Olliphant Memorial—Scholarships for needy and deserving students from Mississippi with preference to Enterprise or to Clarke County.
Paint Research Institute—Graduate fellowship in Chemistry.
Peck Oil Company—Capable and deserving Forrest County student.
The Peoples Bank of Biloxi Award—A student from Biloxi, D'Iberville, or St. Martin who is in need of financial assistance, majoring in Finance or Banking.
Pine Belt Savings & Loan Association—Capable and deserving student who resides in the area of operations of the Association in the College of Business Administration.
Pi Omega Pi—Outstanding student in Business Education.
Mary W. Pulley, Mr. and Mrs. James L. Pulley, and Mrs. Jessie P. Gough Memorial Endowed Scholarships—To help worthy students in the ongoing of their education.
M. M. Roberts—Capable and deserving undergraduate student who is a Mississippian.
Tom Pevey Memorial Award—Sponsored by Hattiesburg Lion's Club for Speech and Hearing Science majors.
W. W. Stout Memorial—Creative student majoring in English.
Study Abroad—To assist students in their Studies Abroad Program sponsored by the Foreign Language Department.
Emmett V. Thomas—Capable and deserving students.
John D. Thomas Family Home Economics—Capable and worthy student majoring in Home Economics.
William A. Thomson—Capable and deserving student in the Hattiesburg area.
Douglas A. Traweek—Senior student with preference given to Clarke County.
B. O. Van Hook Golf Scholarship—Scholarships for outstanding members of the golf team.
J. Fred Walker—Award to an outstanding student in biology or pre-med each year.
Washington County Alumni Chapter—Capable and deserving students from Washington County.
Ivah O. Wilber Panhellenic Scholarship—To be awarded annually to a sorority woman upon recommendation of the Assistant Dean of Students, the Panhellenic Adviser, and the Panhellenic Council in memory of the former Dean of Women and Panhellenic Adviser.
John Everett Williams Memorial—Sponsored by Jackson County Alumni Chapter—Outstanding students from Jackson County.
1958 Class Endowment—Capable and needy student.
1959 Class Endowment—Capable and needy student.
1960 Class Endowment—Capable and needy student.
1961 Class Endowment—Capable and needy student.
1962 Class Endowment—Capable and needy student.
Scholarship Fund of the Sixties—Capable and needy student.

LIBRARY

The Joseph Anderson Cook Memorial Library is a modern, two-story building completely fire-proof and air-conditioned. Of modular construction, it is arranged in four large divisional areas, each division containing its own current and bound periodicals,

classified books, and other materials in the subject field. Book stacks to accommodate 400,000 volumes and reading areas for 400 students are intermingled throughout the Library, with the book stacks open to all. Special features are the study carrels, exhibit areas, a micro-reading area, typing room, bibliography room, and a rare book room. The Library Science Department is housed on the second floor of the building, as are the rooms containing Mississippiana and archives.

The Library is open from Monday through Friday from 7:45 A.M. to 10:30 P.M., Saturday from 8:00 A.M. to 6:00 P.M., and Sunday from 2:00 P.M. to 10:00 P.M.

THE BILBO COLLECTION

In 1961, the University acquired, through the efforts of Dr. William D. McCain, President, the Theodore G. Bilbo papers. This collection contains an estimated 1,000,000 pieces of Bilbo correspondence. The letters cover Theodore G. Bilbo's public life from January 1, 1923, until his death in 1947. Correspondence to Bilbo came from persons in all walks of life and covered both personal and public matters.

To quote Dr. McCain "This is the only complete file of papers and records of any Mississippian of prominence in the political life of the state to be preserved in a public depository. We are most happy, as I am sure the majority of Mississippians are, that this priceless collection has been saved for study and use by future generations."

As many persons still in public life are included in the collection, and because of the frankness of the correspondence, use of the material must be restricted to approved research.

Theodore G. Bilbo served in the Mississippi State Senate, was Lieutenant Governor, served as Governor in 1916 and 1928 (the first person to serve a second term as Governor of Mississippi), and was a U.S. Senator from 1934 until his death in 1947.

THE WILLIAM M. COLMER PAPERS

Through the efforts of Dr. William D. McCain, then President of the University of Southern Mississippi, the first installment of the William M. Colmer Papers was acquired by the University Library in 1970. These papers, which have been indexed by Waller Batson, cover William M. Colmer's congressional activities from 1933 to 1962. Included in the papers are Congressman Colmer's general correspondence, correspondence related to positions, legislative bills introduced by Colmer and correspondence on these bills, newsletters, speeches, and miscellaneous statements and news releases.

Congressman Colmer served in Congress longer than any other Mississippian; he assumed office on March 4, 1933, as did President Franklin D. Roosevelt. Colmer's papers cover the period from the depression, through three wars, to the present period of unrest. They reflect his reaction and the reaction of his constituents to the events of this period. His papers offer a rich source of research to qualified scholars.

CHILDREN'S LITERATURE COLLECTION

In 1966 Dr. Lena de Grummond began the establishment of a special collection of children's literature in the University Library. The collection can be divided into two parts: (1) children's books published before 1900; and (2) the acquisition of manuscripts, original illustrations, sketches, and dummy books that have been used in the writing, illustrating, and publishing of contemporary children's books. Over six hundred persons, including many of the best known writers and illustrators of children's books of today, have contributed their original materials to the collection. It has developed so rapidly that the collection already contains over 16,192 drawings and illustrations, 4,004 photographs, 3,182 manuscripts, and 298 dummy books. Through manuscripts with their frequent revisions and the alterations between rough sketches and the completed illustrations there is a record of the creative process for some of the writers and illustrators of children's books.

THE ENGLISH LANGUAGE INSTITUTE

The English Language Institute offers five-and ten-week orientation courses to non-English speaking people, with classes in the culture and customs of the United States and in the English language, including conversation, grammar, and composition. These

courses are attended by business and professional people as well as students from colleges and universities throughout Latin America, Europe, and Asia.

The Institute offers the international student the opportunity to meet English-speaking students and participate in the extra-curricular activities of the University.

Students enrolled in the English Language Institute receive over 300 hours of instruction during the ten-week period, using the latest teaching methods and materials including teaching machines and programmed texts, tapes, audio-visual aids, etc.

Both the Michigan Language Proficiency Test and the Educational Testing Service's Test of English as a Foreign Language are offered through the Institute at specified dates during the year. Any international student may take these examinations by applying in advance to the Institute or respectively to the University of Michigan or to the Educational Testing Service. For further information, write to:

The Director
English Language Institute
University of Southern Mississippi
Southern Station, Box 65
Hattiesburg, Mississippi 39401

UNIVERSITY OF SOUTHERN MISSISSIPPI ALUMNI ASSOCIATION

The Alumni Association has been in existence since 1917. During the early years its chief function was related to placement service. Beginning with the session of 1945-1946, the organization experienced a rebirth. Recognizing the fact that a working alumni association is vital to the development of the institution, the Executive Committee began the organization of alumni groups in the various counties of the state. On July 1, 1953, a full-time executive secretary was employed.

The Association publishes the ALUMNI NEWS magazine four times a year. Active members of the Association receive all issues while four issues of SOUTHERN NEWS AND VIEWS are mailed to all persons on record in the Alumni Office. Graduates and former students are urged to become active members of the organization and to help support the program of activities that is designed to assist the University in its growth and development.

The Alumni Association sponsored the drive to raise the funds necessary for the construction of the R. C. Cook University Union Building. These funds were secured from alumni, faculty, students, friends, and the people of Forrest County and the state.

For the past several years the Association has enlisted in excess of 10,000 active members. This has grown from 158 during the 1952-1953 year.

Two meetings of the general association are held each fiscal year, the first at the annual homecoming in the fall and the second at the Mississippi Education convention in Jackson.

At the 1954 Homecoming meeting, the association voted to observe March 30 as University of Southern Mississippi Day. Former students of the University are urged to get together on this date when two or more reside in the same area. Organized chapters elect officers at this meeting. March 30 was selected from the important dates in the history of the school because it was on this day in 1910 that the Mississippi Legislature enacted legislation establishing the institution.

The Alumni Association helped set up the University of Southern Mississippi Foundation which is the receptacle for all gifts to **Southern,** which gifts are, in turn, channeled into scholarships for the students.

The Association organized, and works very closely with, the Student-Alumni Association. The purpose of this organization is to get students involved with the activities which the Alumni Association promotes in the interest of the University. A maximum of 100 students are selected on the basis of their leadership ability and where they reside; these students are a very interested and active part of the Association.

PLACEMENT BUREAU

The function of the Placement Bureau is dual in nature. It provides assistance to graduating seniors, graduate students, and alumni in obtaining suitable employment, and to employers in recruiting qualified employees. The services are provided at no cost to the student or to the employer.

Throughout the year, current listings of employment opportunities, both in state and out of state, in teaching, business, industry, and government are made available to the students. Also, on-campus interviews are scheduled with personnel representatives from schools, businesses, industries, and governmental agencies. Students registered with the Bureau are notified of these interview schedules, and all who are interested are given the opportunity for individual interviews.

All students should register with the Placement Bureau and establish a confidential placement credential folder during the last quarter of their junior year, or the first quarter of their senior year. These placement credentials are very valuable to on-campus recruiters and to those who telephone or write for information about prospective employees. After graduation and/or when the registrant has found suitable employment, the placement file is stored and may be quite helpful in later years if a registrant wishes to change employment or to enter graduate school.

NOTES

ACADEMIC ORGANIZATION AND REQUIREMENTS

Organization for Instruction

General Academic Regulations

Degree Requirements

A. ORGANIZATION FOR INSTRUCTION

The University of Southern Mississippi for purposes of undergraduate instruction is organized into the College of Business Administration, the College of Education and Psychology, the College of Fine Arts, the College of Liberal Arts, the College of Science and Technology, the School of Home Economics, the School of Nursing, the School of Health, Physical Education, and Recreation, and the Division of Extension and Public Service. Except for the Division of Extension and Public Service these are all degree-granting colleges and schools.

The University of Southern Mississippi grants the following baccalaureate degrees:

from the College of Business Administration:
the Bachelor of Science in Business Administration

from the College of Education and Psychology:
the Bachelor of Arts
the Bachelor of Science

from the College of Fine Arts:
the Bachelor of Fine Arts
the Bachelor of Music
the Bachelor of Music Education
the Bachelor of Arts

from the College of Liberal Arts:
the Bachelor of Arts
the Bachelor of Science

from the College of Science and Technology:
the Bachelor of Science
the Bachelor of Arts

from the School of Health, Physical Education, and Recreation:
the Bachelor of Science

from the School of Home Economics:
the Bachelor of Science

from the School of Nursing:
the Bachelor of Science

ADDITIONAL INFORMATION

To be eligible for any of these baccalaureate degrees, the student must complete:

1. The General Core curriculum
2. Any additional curricular requirements of the particular college or school in which he will graduate
3. Requirements for a major or majors and a minor (if a minor is required)
4. Any other specific requirement for the chosen degree, or the major or minor

Specific requirements for major and minors are outlined under each department in the Colleges and Schools Section of this catalog.

Academic Programs Currently Offered

The baccalaureate or undergraduate degree may currently be earned in any of the following areas of specialization. Graduate or post-baccalaureate degree programs are detailed in the **Graduate Bulletin.**

College of Business Administration

Accounting-Data Processing
Advertising
Economics
Banking and Finance
General Business Administration
Industrial Management
Marketing Management
Personnel Management
Professional Accountancy
Real Estate and Insurance
Sales Management

College of Education and Psychology

Business Teacher Education
Elementary Education
Industrial Arts Teaching
Industrial and Vocational Education
Industrial Mechanics
Library Science
Psychology
Science Education
Secondary Education
Social and Rehabilitation Services
Special Education

College of Fine Arts

Art
Art Education
Church Music
Dance
Drawing and Painting
Graphic Communication
Jazz
Music Education-Elementary
Music Education-Instrumental
Music Education-Keyboard
Music Education-Vocal
Music History and Literature
Organ
Piano
Strings
Theatre
Theory-Composition
Three Dimensional Design
Voice
Wind Instruments

College of Liberal Arts

Advertising
American Studies
Anthropology
Audiology
Classics
Communication
Community and Regional Planning
Criminal Justice
Education of the Deaf
English
French
General Speech Education
Geography
German
History
Journalism
Language Disorders
Latin American Foreign Trade
Latin American Studies
Linguistics
Philosophy
Philosophy and Religion
Political Science
Pre-Law *
Public Address
Radio-Television-Film
Social Studies
Sociology
Spanish
Speech and Hearing Sciences
Speech Pathology
Teaching English to Speakers of Other Languages

College of Science and Technology

Architectural Technology
Biology
Building Construction Technology
Chemistry
Computer Science
Computer Technology
Data Processing
Environmental Technology
Food Science and Technology
Geology
Industrial Technology
Mathematics
Mechanical Technology
Pre-Medical Records Administration *
Medical Technology
Microbiology
Physics
Plastics Technology
Polymer Science
Pre-Dental *
Pre-Dental Hygiene *
Pre-Engineering *
Pre-Medical *
Pre-Optometry *
Pre-Pharmacy *
Pre-Physical Therapy *
Pre-Veterinary Medicine *
Science Education
Statistics

School of Health, Physical Education, and Recreation

Athletic Administration and Coaching
Health Education
Physical Education
Recreation

School of Home Economics

Child Development
Clothing and Textiles
Clothing Merchandising
Food and Nutrition
Home Economics Education
Home Economics in Equipment
Hotel and Restaurant Administration
Institution Management
Institution Management-Dietetics
Marriage and Family Living

School of Nursing

Nursing

Obviously, many of these majors involve the closest cooperation among the University's academic departments. A detailed analysis of degree programs, majors, and minors is found under the section of this catalog devoted to each specific school or college.

*** A baccalaureate degree may not currently be earned in this special program at the University of Southern Mississippi.**

B. GENERAL ACADEMIC REGULATIONS

1. Quarter Calendar: The University of Southern Mississippi is on the quarter calendar which means that in one academic year, which begins with the fall quarter and ends with the summer quarter, a student may earn four complete quarters of credits which are awarded in semester hours. A normal quarter is eleven weeks in length and a semester hour of credit represents seventy (70) minutes of class time per week (laboratory periods are normally 140 minutes).

2. Penalties for Late Registration: Registration will continue after the close of the scheduled registration period (see Calendar) for six class days. Beginning at 8:00 A.M. on the seventh day of scheduled class work all registrations will cease for that quarter.

A late registration fee will be charged to all students registering after the scheduled registration period. The fee is ten dollars ($10.00).

The course load for which one can register will be reduced to nine (9) semester hours beginning with the fourth day of scheduled class work. An exception to this

regulation may be made by the appropriate dean. Students registering for the second term of a quarter cannot register for a full load after the second day of the new term.

3. Change of Schedule and Withdrawal from the University. A student may be allowed to drop a course through the 20th class day. A student dropping a course after this deadline will receive a grade of **G** or **H.** In rare cases, a dean may permit a student to drop a course after the deadline without penalty if extenuating circumstances exist. A fee of five dollars ($5.00) is charged for a change in registration after the regular scheduled registration period (see Calendar).

A student withdrawing from the University prior to the deadline for dropping classes will not receive any grades. His record will show the date of withdrawal only. A student withdrawing after the deadline for dropping courses will receive a grade **G** (withdrawal passing) or a grade of **H** (withdrawal failing).

4. Load of Work: The normal student load is nine (9) to thirteen (13) semester hours.

1. Freshmen—not over **13** hours without dean of college or school approval. Then, based on ACT score of 25 and other achievement criteria, up to 16 hours. Sixteen hours is the maximum load for freshmen.
2. Sophomores—not over **14** hours without dean of college or school approval based on 3.5 GPA. Seventeen hours is the maximum load for sophomores.
3. Junior College Transfers—not over **13** hours without dean of college or school approval.
4. Juniors and Seniors—not over **15** hours without dean of college or school approval. A maximum of 18 hours may be taken if the student has an overall GPA of 3.50.
5. Graduate Students—twelve hours maximum; nine hours if the student holds a one-fourth-time fellowship; six hours if the student is working one-half time.

5. Absences: Students are expected to attend all classes each time the classes meet. When it is neccessary that a student be absent from a class, courtesy requires an explanation to the instructor in charge. Class attendance policy will be set by the professor. It will be the responsibility of each professor to notify his classes at the outset of each quarter as to the attendance requirements to which each student must adhere. Teachers should report all excessive absences to the Associate Dean of Students. When students are absent because of sickness or other acceptable reason, their professors are so notified by the Associate Dean of Students. An absence on a day immediately preceding or following an official holiday is considered as two absences.

6. Examinations: Examinations will be held on the last four days of each quarter (see Calendar).

During the first term of the summer quarter, the last regularly scheduled meeting of a class will be used for examination purposes for that term's courses.

No final examinations are permitted prior to the scheduled examination period (see Calendar).

A student who is absent from the examination without valid reason approved by the Dean of the University forfeits credit for the quarter. Students will be charged a fee of $3.00 for special examinations unless excused by the appropriate dean.

7. Grading System:

A— indicates very superior work and carries 4 quality points per semester hours.
B— indicates excellent work and carries 3 quality points per semester hour.
C— indicates average work and carries 2 quality points per semester hour.
D— indicates inferior to average work and carries 1 quality point per semester hour.
E— indicates course in progress. Not included in grade point average. A grade of **E** must be removed by registering for the course again, except for those courses that extend for a period longer than a normal term.
F— indicates failure and carries no quality points. A grade of **F** may not be removed by taking an independent study course without the approval of the dean of the appropriate school or college.
I— indicates an incomplete record. An **I** becomes an **F** if the work is not completed within the next twelve months, or, if the student is not in residence during all the next twelve months, within the next quarter of attendance after the expiration of the twelve-month period. A grade of **I** may not be removed by taking an independent study course without the approval of the dean of the appropriate school or college.

These courses are not counted in students' GPA until removed or if they become a grade of **F**.

G– indicates withdrawal from a course passing. No student will be allowed to withdraw from a course after twenty (20) scheduled class days except under unusual circumstances approved by the appropriate dean.

H– indicates withdrawal from a course failing.

P– indicates a passing grade in non-credit courses or courses taken on a pass-fail basis.

Note: A faculty regulation provides that except in cases of obvious clerical error, a grade of **A, B, C, D,** or **F** may not be changed without permission given by the faculty in regular meeting.

Pass-Fail: Students may take courses either on a pass-fail basis or for a grade. The option must be exercised at the time of registration, and the option may not be altered after the deadline for schedule changes. Courses elected on a pass-fail basis will be treated in the same manner as independent study. No more than thirty-six (36) semester hours earned in independent study, extension work, or pass-fail courses, with a limit of eighteen (18) semester hours of pass-fail courses, may be applied toward a degree. No more than twelve (12) semester hours earned from the same department by independent study, extension work, or pass-fail courses may be applied toward a degree. A student may not take a course on a pass-fail basis to remove an **F** or an **Incomplete.** Such courses can not be a part of a prescribed degree program, i.e., core requirements, major, or minor, except for physical education courses in the General Core.

Audit: A student who takes a course for audit (non-credit) must meet the class in the same manner as the student regularly enrolled. The fee for audit is the same as if registered for credit.

Computation of Grade-Point Averages: Quality point averages are based on the number of hours undertaken rather than the number of hours passed in determining whether a student meets minimum standards. The total hours attempted, for suspension purposes, will include credit undertaken at the University and credit transferred; the quality point average will involve only credit for courses attempted at the University of Southern Mississippi. Courses in which a student receives an **I** or an **E** will not be counted in the "total hours attempted."

An undergraduate student will be permitted to repeat courses a total of six (6) times or a total of eighteen (18) semester hours in order to improve his grade-point average. (That is, he may repeat one three-hour course six times, three three-hour courses twice each, six three-hour courses once each, etc.). The six-repeat rule shall include all repeats including junior college or any other college or university work. The first six (6) repeats used shall stand. Other than these "repeats" all credit attempted will be used in computing the grade-point average. This policy became effective with courses taken after September 1, 1967.

Dean's List: Students will be placed on the Dean's List if they have maintained a quality point ratio of 3.25 or above on an academic load of nine (9) semester hours or more, provided they have no grade of **D** or below.

President's List: Students will be placed on the President's List if they have earned a quality point ratio of 4.0 (all A's) on a load of nine (9) semester hours or more.

8. Academic Standards: An undergraduate student, to move assuredly toward a degree, should maintain the following grade point averages.

Total Hours Attempted (Including transfer credit)	**Required Grade Point Average** (USM work only)
18 through 24	1.25
25 through 36	1.50
37 through 48	1.65
49 through 60	1.75
61 through 72	1.80
73 through 84	1.85
85 through 96	1.90
97 through 108	1.95
109 and above	1.97
For graduation	2.00

If a student does not attain the minimum GPA on the scale he is placed on academic probation at the end of the quarter. To register for classes the following quarter he must receive clearance from his major department chairman and from the dean of the college or school in which he wishes to be enrolled. If evidence of improvement toward the prescribed GPA is made during the probationary period the student is continued on probation the subsequent quarter but is considered making progress toward a degree.

However, if the student does not attain the prescribed GPA after two probationary quarters, he will be placed on academic suspension and must withdraw from the University for one quarter or be cleared for readmission by the appropriate dean upon appeal. Notice of probation or suspension will be carried on the end-of-quarter grade report. Total hours attempted will include credit undertaken at the University and credit transferred. The quality point average will involve all courses attempted at USM only. Courses in which a student receives an **I** will not be counted in the "total hours attempted."

Appeals for reinstatement by students suspended under this policy will be directed to the department chairman of the college or the dean of the school in which the student is enrolled.

Any student who earns a 0.00 grade point average on nine (9) or more hours for any one term will be automatically suspended regardless of his overall grade point average, and must appeal the suspension in the same manner as any other academically suspended student.

Students on academic or disciplinary suspension may not enroll in courses offered by the University of Southern Mississippi.

9. Memorandum of Credits: A memorandum of credits is a statement available from the Office of the Registrar showing the courses completed and credits earned by the student as of the date of the memorandum. Memoranda are fifty cents each, and twenty-four (24) hours notice is required.

10. Classification of Undergraduates: A student is classified as a: **Freshman** when he has less than 27 semester hours of earned credit; **Sophomore** when he has as many as 27 semester hours and less than 54 semester hours; **Junior** when he has as many as 54 hours and less than 87 hours; **Senior** when he has 87 or more semester hours of earned credit.

11. Course Numbering: Freshman courses are numbered from 100 to 199; sophomore courses from 200 to 299; upper division courses from 300 to 499; graduate courses 500 or above. Courses carrying numbers below 100 are non-credit courses. Courses taken by independent study will carry the prefix **C.** Honors courses carry the prefix **H.**

The department code number which is used at registration is listed by the department name.

Freshman and sophomore students are not ordinarily permitted to register for upper division courses.

12. Course Sequence and Related Sequences: Certain 100 and 200-level courses may not be taken for credit by a student after he has completed higher level courses in the same subject area. Also, certain sequences of courses may not be taken for credit after a student has completed parallel courses which are similar in subject matter. Specific applications of this policy are indicated in the numbered course descriptions in the Course Description Section of this catalog. Selection of the courses, as well as exceptions to the policy, is left to the department chairmen.

13. Credit by Examination: The University of Southern Mississippi will allow students to earn credit by examination under one or more of the following programs, for up to a total of thirty-six (36) semester hours.

Credit earned through the use of the examination will be included in the sixty-four (64) hours "Limitation on Transfer of Credits" rule and may not be used to meet the thirty-two (32) on-campus requirement.

a. **College Level Examination Programs: General Examinations;** The University of Southern Mississippi will allow credit examination to those students who have participated in the College Level Examination Program and have achieved a level acceptable to the University. Credit will be restricted to the more mature student. It would be assumed that a mature student would be a student who is at least 22 years of age. It will be the responsibility of the Admissions Office to determine a person's eligibility to receive credit. A student who has earned over thirty (30) semester hours of college credit may not earn

additional credit through the use of this examination. Credit appearing on another institution's transcript will be accepted as transfer credit. Credit will be granted for successful completion of the examination in the following manners:

CLEP General Examination	Course Equivalent	Semester hours
English Composition	Eng 101, 102	6
Social Science	History	3
	Soc. Sci. Elective	3
Nautral Science	FS 104, 106	6
Humanities	AA 100	3
	Literature	3
Mathematics	MAT 101	3
	MAT Elective	3
Total		30

Credit will be awarded for each area the student receives a scale score of 500 or above.

b. **College Level Examination Program: Subject Area Examinations;** A student of any age who has not earned college-level credit in the subject area in which he/she seeks credit can take a CLEP subject-area examination for advanced placement and college credit. **CLEP credit cannot be used to remove an F grade.** Credit will be awarded for a scale score of 50 or above. The optional essay is required for all English and psychology examinations. The appropriate department at USM will have final determination in the amount of credit to be awarded based on the optional essay. Under this program, students are restricted to a maximum of thirty (30) semester hours, with not more than six (6) hours or two (2) courses in one subject-matter area. (It is understood that the thirty (30) hour-total includes all credit earned by examination.) The adoption of the CLEP standardized examination will preclude the use of departmental examinations except in those areas where CLEP examinations are not available. The Admissions Office will be charged with the responsibility for determining student's eligibility to earn credit through these examinations. Credit appearing on another institutions transcript will be accepted as transfer credit.

Additional information applications, and CLEP Bulletins can be secured from the Office of Orientation and Advisement, Room 212, Student Services Building, or by writing Southern Station, Box 11.

c. **Advanced Placement Program:** Students from cooperating high schools can earn up to eighteen (18) hours (with no more than six (6) hours or 2 courses in one subject-matter area) through the College Board's Advanced Placement Testing Program. Credit is to be awarded only for grades of 3 and above. The awarding of credit will be administered by the Office of Admissions.

d. **Challenge Examination:** Under the following policy, and with the approval of the Dean of the University, departments may grant credit by examination in lieu of class enrollment, for courses where no CLEP subject area examination is offered.

i. The examination must be given by the department in which the course is offered.
ii. The department chairman must be assured that the student has had some formal or informal learning experience which has prepared him for the examination.
iii. The student must make application to the chairman of the department in which the course is offered. If approval is granted, the student will pay a $10.00 examination fee in the Business Office. The student then presents his receipt to the department chairman who will administer the examination.
iv. If the student passes the examination, a memorandum must be forwarded to the Registrar giving the name of the department, course number, course title, grade, semester hours, and the date the examination was taken and evidence that the examination fee has been paid.

14. Summary of Types and Limitations of Credit Usage

The following is a summary of the limitations placed on credit usage:

A. Sixty-four (64) semester hours through a combination of credit by examination, extension, independent study, and Armed Forces experiences.

B. Thirty-two (32) semester hours through a combination of independent study (including USAFI) and extension work. (USAFI and other correspondence credit limited to nine (9) semester hours in any one field.)
C. Thirty (30) semester hours credit by examination (including CLEP).
D. Thirty (30) semester hours through a combination of independent study, extension, and pass-fail credit.
E. Eighteen (18) semester hours of pass-fail credit.
F. Twelve (12) semester hours in the same department through a combination of independent study, extension, and pass-fail.
G. Sixty-four (64) semester hours in a senior college are required for a baccalaureate degree. Of this total forty-five (45) must be in course numbers 300-level or above.
H. The types of credit considered as senior college work are: (1) USM–Hattiesburg; (2) USM–Gulf Park; (3) USM–Natchez; (4) USM–Jackson County; (5) USM–Jackson; (6) Extension; (7) Independent Study; (8) USAFI*; (9) Armed Forces experiences.*
I. Types of credit not considered senior college work: (1) Junior college transfer work; (2) CLEP; (3) USAFI **; (4) Armed Forces experience.**

* If course number evaluations are 300-level or above
** If course number evaluations are below 300-level

C. GENERAL DEGREE REQUIREMENTS

1. Choice of Catalog: Graduation requirements must be met under a catalog which is not more than six years old at the time of the student's graduation and which carries announcements for a year during which the student earned some credit at the University of Southern Mississippi. A transfer student from a Mississippi junior college may graduate under a catalog which was in force during the time he attended a Mississippi junior college provided the catalog is not more than six years old at the time of the student's graduation.

2. Hour Requirements: An applicant for a degree must complete 128 semester hours, including core requirements and major and minor requirements. Not more than nine (9) semester hours in physical education activity courses, and not more than four (4) semester hours credit in any one varsity sport may be used in meeting total hour requirements for a degree. Courses in dance are excluded from this limitation. Of the total of 128 semester hours, sixty-four (64) must be earned in a senior college, and forty-five (45) of the sixty-four (64) must be in courses numbered 300 or above.

3. Quality Point Requirement: A student must earn a quality point ratio of at least 2.0 (an average grade of C) based on all courses undertaken at the University of Southern Mississippi. Grades in pass-fail courses do not carry quality points.

4. Hour and Quality Point Requirements for Pre-Professional Degrees: University of Southern Mississippi students may be allowed to complete degree requirements for the Bachelor of Science or the Bachelor of Arts degree in professional schools of medicine, medical technology, dentistry, or law on the following conditions:

(a) that 90 hours of credit and 180 quality points shall have been completed, with a minimum of three quarters and thirty (30) semester hours of residence at the University of Southern Mississippi;
(b) that all core requirements for the degree shall have been completed;
(c) that credit and quality points shall be transferred back to the University of Southern Mississippi from the school of medicine, dentistry, or law to complete requirements for the degree. A minimum of one year's work must be transferred. In any case of minimum of 128 semester hours must be completed before the degree can be awarded;
(d) that the program leading to the degree shall be completed within two calendar years of the termination of the last quarter of residence at the University of Southern Mississippi.

5. Residence Hour Requirements: To become eligible for a degree at the University of Southern Mississippi, a student must meet the following residence requirements:

(a) He must earn at least thirty-two (32) semester hours of credit in residence.
(b) He must do the last quarter of work (twelve [12] semester hours) on the campus at which he intends to receive his degree. Any exception to this regulation must be recommended by the dean of the college or school in which the student is graduating, and must be approved by the Dean of the University.
(c) He must earn at the University of Southern Mississippi at least nine (9) semester hours of credit in his major field.
(d) Military personnel on active duty who are assigned to the University of Southern Mississippi on temporary duty under "Operation Bootstrap" may be permitted to qualify for graduation by completing a minimum of thirty (30) semester hours in residence, provided all other degree requirements are met.
(e) Limitation on Independent Study Courses: A long-standing regulation provides that students will not be permitted to do independent study while in residence. Students not attending the University during the summer quarter are not considered to be in residence and may enroll in independent study courses without prior approval; however, they should consult with their faculty adviser for assistance in course selections. Exceptions to this regulation can only be made with the approval of the appropriate dean and the Dean of the University. If a student takes an independent study course during his last quarter of attendance, he may not register for an independent study course after he leaves the campus with the expectation of completing requirements for his degree.

6. Special Note

Business Administration Residence Requirements

To receive the Bachelor of Science in Business Administration degree from the College of Business Administration the senior year's work (32 semester hours) must be taken on the Hattiesburg campus.

Of this requirement a sufficient number of hours of senior level courses in the major field must be taken to assure the quality of the degree. The absolute minimum is nine (9) semester hours though this may be higher depending upon the recommendation of the department chairman.

This policy applies to all students, including transfer students from other colleges and universities and those students at USM-Gulf Park and USM-Natchez.

The transfer student must meet the quality point requirements for work undertaken on the Hattiesburg campus that apply to all our regular students.

7. General Core Requirements: The purpose of the General Core requirement is two-fold: to give all University students a common cultural experience, and to extend this shared experience over a wide enough range of skills and major disciplines so that the individual student may gain a better perspective of his own special abilities and interests.

It is the purpose of the degree programs in the upper-level colleges and schools to build upon the common core experience in guiding students toward majors and minors which will reflect their individual capacities and life aims.

The General Core requirement, common to all degree programs, is itemized below.

THE GENERAL CORE CURRICULUM

English 101, 102	6
Humanities and Fine Arts	
Six hours from the following areas: literature, allied arts, foreign language, history, philosophy, religion	6
Social Sciences *	
Nine hours from the following areas with no more than three hours from any one area: anthropology, economics, geography, psychology, sociology, political science	9
Mathematics	3
Science *	6
Physical Education or approved substitute **	2
Total	32

* For recommendations and requirements in these areas, the student should consult the introduction to the appropriate degree-granting college or school. Note also that each college or school has additional requirements for its specific core. In addition each degree-granting college or school has its own requirements for a particular degree. These requirements are designed to give the student the necessary preparation for completing a major and are listed in the Colleges and Schools Section.

** Students are required to take two physical education activity courses during the freshman year unless excused from the requirement by the University physician or the dean of his school or college. Students who complete Military Science I or Aerospace Studies are excused from the physical education requirement. Those participating in varsity athletics, Marching Band, Dixie Darlings, Cheer Leaders, or Pom Pon Girls may substitute this for required physical education. Only one physical education activity course may be taken any one quarter.

8. Exemption from the General Core Requirements: With the approval of the appropriate dean, students may be exempt from any part of the core requirements for any degree on the basis of satisfactory attainment as demonstrated by previous academic record. The granting of this exemption by a dean does not involve the bestowal of credit; neither does it reduce the total number of hours to be earned for a degree. Its only effect is to increase the number of electives which the student may include in his degree program.

9. Change of Major within a College or School: Any student wishing to change his major within a college or school must secure the approval of the dean.

10. Change of College or School: Students wishing to transfer from one college or school of the University to another must make application to and be approved by the dean of the college or school they wish to enter.

11. Quality Point Requirement for the Major and Minor: A student must have a quality point average of at least 2.0 (a C) in the major field and in the minor field on courses taken at the University of Southern Mississippi.

A transfer student's work done in the major and minor fields in another institution must average at least 2.0 to be applicable toward the major and minor requirements at the University of Southern Mississippi. If the transferred work does not average at least a C, the student must remove any deficiencies in that part of the major and minor credit being transferred. Transferred deficiencies may be removed by: (a) repeating at the University of Southern Mississippi a sufficient number of courses on which grades of D were transferred and thereby raising the grades in those courses to the level required for a C average, or (b) striking from the transferred transcript courses in the major or minor field with grades of D, and taking additional courses in the major or minor at the upper division level to meet the University's degree requirement.

12. Application for Degree: A student is expected to file an application for a degree at least three quarters before degree requirements are completed and an application will be accepted no later than midterm of the quarter preceding graduation. This application filed with the Registrar will show the work completed by the student and the courses planned for the ensuing quarters. Filing three quarters in advance of the proposed graduation date will allow time for checking the application and also allow the student time for making up any dificiencies found in the degree program. After the application has been approved by the Registrar's Office, it becomes the student's official degree program.

No application for degree will be accepted until the degree fee of twelve dollars ($12.00) has been paid at the Business Office.

13. Approval of Faculty: The names of all applicants for degrees are submitted to a vote of the faculty. If this vote is favorable, the President of the University is authorized by the Board of Trustees to grant the degree.

14. Degrees with Honors: Students with exceptional academic records may be awarded degrees with honors or with highest honors. The residence requirement for such degrees is not less than five (5) quarters with a load of not less than nine (9) semester hours in residence credit each quarter, (a load of not less than six (6) semester hours each quarter will apply to USM—Gulf Park and USM— Natchez) and totaling not less than fifty-four (54) semester hours of residence credit on the Hattiesburg campus. In computing this residence requirement, one six-week term will be counted as half quarter when the load is six (6) hours or more. A degree with honors will be granted to a student who maintains a quality-point average of 3.5 or more. A degree with highest honors will be granted to a student who maintains a quality-point average of 3.8 or more. Graduation **magna cum laude** will be granted to students who meet the following stipulations: (a) the

satisfactory completion of a comprehensive examination in the major field, such examination to be designed and administered by the department involved; (b) the satisfactory completion of a senior project resulting in a written report on that project meeting the guidelines presently in effect for senior honors projects; (c) notice of intent to meet these requirements at least one calendar year prior to graduation; (d) an overall quality point average of 3.50 to 3.79. Graduation **summa cum laude** will be granted to students who meet the following stipulations: (a), (b), and (c) above, (d) An overall quality-point average of 3.80 or above.

15. Second Baccalaureate Degree: The University of Southern Mississippi will grant a candidate a second baccalaureate degree based upon requirements of an applicable catalog, provided the program for the second degree includes at least thirty-two (32) semester hours with at least sixty-four (64) quality points. The thirty-two (32) semester hours must be related to a specific major separate from the first degree major; and the thirty-two (32) semester hours must be completed after the first degree requirements are met.

D. MINOR REQUIREMENTS

In addition to the major, each student, where the degree program so requires, must also choose a minor (or else a second major). He should select his minor in consultation with his academic adviser. A minimum of eighteen (18) semester hours is needed for the minor, with the quality point requirement as noted in paragraph C-10 above. Students who complete the Advanced Course in Military Science (ROTC) or the Professional Officer Course in Aerospace Studies (AFROTC) are allowed to waive the requirement for an academic minor. The work taken in the major may not apply to the minor.

With certain exceptions, any of the areas of specialization or majors indicated above may be selected for the minor. In choosing a minor, however, the student should be guided by the following policies:

A. A student working for a non-teaching degree must establish a minor (18 hours) chosen from the fields listed above as possible majors with two exceptions:

(1) A student may establish a minor for the non-teaching degree in general science by offering twenty-seven (27) hours from two or more appropriate fields (biology, chemistry, geology, mathematics, and physics), provided he offers at least nine (9) hours from each field he chooses to include.

(2) To establish a minor in any field, a student must earn at least nine (9) hours above the core requirements in that field.

B. A student working for a teaching degree in secondary education necessarily establishes a minor in secondary education.

Since many high schools in Mississippi require teachers to teach in more than one field, it is recommended that students working for secondary education certification plan their electives so as to meet certification requirements in some subject field in addition to their major.

BULLETINS

The University of Southern Mississippi publishes four catalogs each year; the **Undergraduate Bulletin,** the **Graduate Bulletin,** the **Independent Study Bulletin,** and the **Summer Bulletin.** To get the complete programs of the University, please check each **Bulletin.**

COLLEGES, SCHOOLS, AND DIVISION

George Robert Olliphant Honors Center

University Center for Health Related Sciences

College of Business Administration

College of Education and Psychology

College of Fine Arts

School of Health, Physical Education, and Recreation

School of Home Economics

College of Liberal Arts

School of Nursing

College of Science and Technology

USM—Gulf Park

USM—Natchez

Division of Extension and Public Service

NOTES

GEORGE ROBERT OLLIPHANT HONORS CENTER (OHC)

Wallace G. Kay, Director
Richard H. Bowers, Associate Director
R. Moorman, Neumann, Pessoney, Tharpe

The Center was created in 1974 with its own faculty of six and classroom and office facilities in McMillin Hall. The Center has four responsibilities: the University Honors Program, the University Program Series (Man, Science, and Society), the program for a minor in Humanities, and the University Lectures.

THE UNIVERSITY HONORS PROGRAM

The University Honors Program is dedicated to providing a superior education for superior students, offering special honors sections of certain courses, the honors colloquia, independent study, and special recognition upon graduation. Students may enter the program as freshmen, sophomores, or juniors and receive a stipend of $75.00 each quarter.

To enter the Program as a freshman, a student competes with other applicants on the basis of five criteria: high school grades, scores on the American College Test, detailed ratings by two high school teachers and the principal or guidance counselor, a personal interview with Honors Council representatives, and an extemporaneous essay. Entrance after the first quarter of the freshman year requires a minimum quality point average of 3.0 and a letter of recommendation from one college instructor.

Students are in good standing in the Program as long as they maintain a 3.0 overall average. Entering freshmen have two quarters to achieve a 3.0 average. Students whose average falls below 3.0 are suspended from the Program until such time as their average again reaches 3.0. If a student's average falls below 3.0 but is above 2.9, he is given one quarter's probation; he may continue in the Program for one quarter but must raise his average to 3.0 or be suspended following that quarter.

Curricular requirements for the Program include the following:

A. Students who enter as beginning freshmen

1. **Freshman Year**
   a. **Colloquium** (OHC 111, 112, 113). Freshmen are required to take colloquium each quarter. The full sequence replaces the core requirement for History 101, English 102, and Philosophy 151; a student who has credit for only **one** quarter of colloquium may use that credit to substitute for English 102; a student who has credit for **two** quarters of colloquium may use that credit to substitute for English 102 and either Philosophy 151 **or** History 101.
   b. **Honors Sections.** Freshmen are required to take English H101. They are expected to take Political Science H101, Sociology H101, and Psychology H110. Science majors are expected to take Biology H101 and Biology H102; non-science majors are urged to take the biology sequence.
2. **Sophomore Year**
   a. **Colloquium.** Students are required to take OHC 201 and OHC 202.
   b. **Honors Sections.** Students are urged to take at least one Honors English course (English H200, H201, or H202).
3. **Subsequent Years**
   a. **Colloquium.** All students are required to take OHC 301, **Introduction to Research Methods,** which results in a prospectus for the Senior Honors Project. Two additional hours of Colloquium are required.
   b. **Prospectus.** Each student is required to present a formal prospectus for his Senior Project three quarters prior to the quarter of his graduation. The prospectus will adhere to the following guidelines:
   (1) A one-page description of the subject for investigation.
   (2) A brief statement of the purpose of the project and of its value within the discipline.

(3) A preliminary bibliography and/or a description of work done, similar to the project, by others.
(4) A preliminary outline of the project.
(5) Format:
Three copies, typed, double spaced; a title page like the title page for the project itself with the words "A Prospectus Of" inserted above the words "A Thesis", an approval page with spaces for the signatures of your project director, your department chairman, and the director of the Honors Center.

c. **Project.** Each student is required to complete a Senior Honors Project, often called the Honors thesis. (The exact nature of the project is a matter for decision in discussion between the student and the proper representatives of his major department. However, certain general guidelines should be observed, as follows: the project should reflect significant individual effort which may involve library research, laboratory research, or field research. The project should conform to accepted scholarly procedure within the discipline of the major field. The project may be creative, as opposed to derivative, at the discretion of the department chairman involved and subject to the specific approval of the director of the Honors Center; however, a creative project must be executed within the framework of accepted scholarly procedure. That is, a student who produces a creative effort should introduce that effort by adequate discussion of the nature of the creative form involved, including an indication of familiarity with other examples of that form. The project must be done in the area of the student's major unless specific approval is given by the Honors Council for the student to do a project in the area of his minor. Joint projects by two or more students are permissible if specifically approved by the appropriate department chairman and by the director of the Honors Center. Any doubts as to the validity of a proposed project should be resolved in discussion among the project director, the appropriate chairman, the honors director.) Directions for the format of the Senior Project may be secured from the Honors Center Office.

d. **Comprehensive Examination.** In order to graduate through the Honors Program, each student must take a comprehensive examination in his major field. This examination must be taken no later than four weeks before the student is scheduled to graduate. The examination may be either written or oral, at the option of the major department. The exact nature of the examination is a matter for decision by the department involved, but these are general guidelines.
(1) The examination should be designed so that it can be completed in a maximum of three hours.
(2) The examination should test the candidate's general knowledge of the field of his major, rather than specialized information about some particular aspect of his major.
(3) The examination should be uniform for all candidates within a particular quarter.
(4) It is the responsibility of the student to contact the department chairman and request that the comprehensive examination be designed and administered. These arrangements should be made one quarter in advance.

B. Students who enter after the first quarter, freshman year. Each student is expected to meet all requirements listed above **except** those which have been offered before he joined the program; e.g., a student entering winter quarter of his freshman year is not required to take OHC 111. All students, no exceptions, must meet all requirements outlined under 3 above.

Graduation Recognition

Honors graduates receive the distinction, written upon their diplomas, of being Honors Program Graduates in the departments of their majors. If their academic average is high enough, they also receive the distinction of **summa cum laude** (3.8 overall average) or **magna cum laude** (3.5 overall average), based on a 4.0 point average as a perfect record of all A's.

THE UNIVERSITY PROGRAM SERIES

The Man, Science, and Society Program.

Each quarter, a program will be offered combining presentations in humanities, in science, and in social science. The one-hour, pass-fail courses feature such things as nationally known speakers, outstanding films, panels, and other enrichment programs. This series is open to all students of the University and may be repeated for up to 12 hours credit. See course descriptions for OHC 321, 322, 323.

THE MINOR IN HUMANITIES

Available to any student who needs a minor, and particularly designed for the student who plans a career in college teaching, the humanities minor is a combination of culturally-oriented courses from the classics, literature, science, social science, art, and music. The student selects three hours each from the Center courses in science, classical culture, western literature, art or music, and social science, and completes the twenty-one (21) hour minor with six (6) hours of one foreign language. Courses offered in each category include:

Science: OHC 210 and OHC 316
Classical Culture: OHC 310 and OHC 313
Western Literature: OHC 410 and OHC 412
Art and Music: OHC 314 and OHC 315
Philosophy and Social Science: OHC 380 and OHC 382

THE UNIVERSITY LECTURES

The Center provides funding for various special interest lectures sponsored by several departments and organizations on campus.

NOTES

THE UNIVERSITY CENTER FOR HEALTH RELATED SCIENCES

William G. Brundage, Director
Executive Council: Bain, Glick, McCarthy, Mehearg, Rhodes, Yarbrough

PURPOSES AND RESPONSIBILITIES

The University of Southern Mississippi Center for Health Related Sciences (CHRS) is an innovative educational and clinical complex designed to provide health related services and academic training. Its purposes and responsibilities are:

1. to provide education and training for:
   a. University students seeking degrees in one of the health related fields; and
   b. practicing professionals or paraprofessionals who wish to gain further knowledge or experience in a specific or broad inter-disciplinary clinical program on a continuing basis;
2. to provide certain health related services not presently available to the University community, the local community, the State of Mississippi, and surrounding states, and to supplement existing services; and
3. to provide a proper setting for conducting applied and pure research in health related disciplines.

AFFILIATED PROGRAMS

Clinical Psychology. See College of Education and Psychology.
Family Life Services. See School of Home Economics.
Food and Nutrition (Dietetics). See School of Home Economics.
Gerontology. See School of Social Work.
Genetics. See College of Science and Technology.
Health Industries Management Training and Development. See College of Business Administration.
Medical Technology. See College of Science and Technology.
Nursing. See School of Nursing.
Social Work. See School of Social Work.
Speech and Hearing. See College of Liberal Arts.

AFFILIATED HOSPITALS

Ellisville State School, Ellisville, Mississippi
Forrest County General Hospital, Hattiesburg, Mississippi
Hinds General Hospital, Jackson, Mississippi
Memorial Hospital, Gulfport, Mississippi
Methodist Hospital, Hattiesburg, Mississippi
Singing River Hospital, Pascagoula, Mississippi
St. Dominic's Hospital, Jackson, Mississippi

NOTES

COLLEGE OF BUSINESS ADMINISTRATION

Joseph A. Greene, Jr., Dean
H. O. Jackson, Assistant Dean

PURPOSE

Rapid technological change, the increasing complexity of society, and the growing role of government in business, economic, and social affairs are placing new requirements on the administrators throughout the country whether they are employed in business, government, or non-profit organizations.

With the College of Business Administration the content of the courses and the curricula are changed as needed to see that we meet our primary objective of assisting students in securing entry-level positions in business and government and provide them the background for attaining higher levels of managerial responsibility after experience. The young men and women who study in the College are provided with the opportunity for a liberal education as well as professional training. They are prepared to be flexible in their thinking and adaptable to change as well as knowledgeable in their chosen fields. Thus they are given help in preparing not only for careers but also for satisfactory lives and as constructive citizens.

A second objective of the College is to provide quality graduate education at the master's degree level for those currently working in business, military personnel with a need for business education, and college graduates who intend to pursue further graduate work elsewhere or prepare themselves better for beginning positions in business or government.

Lastly, the College is committed, as resources permit it, to servicing businesses and governmental units in the area through applied research and the sponsoring of workshops and seminars.

To keep current with changes in business education throughout the country the College is a member of the Southern Business Administration Association and the American Assembly of Collegiate Schools of Business.

ORGANIZATION AND OPERATION

Academic Departments

The College of Business Administration is divided into the academic departments of Accounting, Economics, Finance, Management, and Marketing. Each department offers more than one major, so a student interested in a particular area should examine the alternative majors to select the one which suits him best.

Whatever major is chosen the student pursues practically the same curriculum except for the major course requirements. Thus, it is possible for a student to change his major, if he has a change in interest, without a loss of time until his senior year. Upon completion of all requirements, he is awarded the degree of Bachelor of Science in Business Administration.

The Department of Economics offers the Bachelor of Arts degree in the College of Liberal Arts as well as the Bachelor of Science in Business Administration.

Office of the Dean

The Office of the Dean of the College of Business Administration is the chief administrative office through which the student will come if he wishes to withdraw from the University, have exceptions made in his academic program, is suspended for academic reasons, or has problems he wishes to discuss.

Under the Dean is the Coordinator of Graduate Studies who accepts and processes all applications for the graduate program.

Bureau Of Business Research

The functions of the Bureau of Business Research are designed to complement the overall program and objectives of the College of Business Administration. Specific functions included are to: provide an administrative framework for research projects; provide a source of support for, and flexibility of approaches to, research by faculty

members (including Bureau staff); publish research reports; provide a readily identifiable point of contact for business, industry, and government relative to research and services in the areas of business and economics; provide for the development and execution of service programs; and maintain a framework to assist in the education and training of students.

Coordinator of Graduate Studies

The College of Business Administration offers the following graduate programs: a Master of Business Administration, a Master of Science in Accounting, and a Master of Science or Master of Arts in Economics. The student who is interested in graduate work upon completion of his undergraduate degree should contact the Coordinator of Graduate Studies concerning entrance requirements, objectives of the various programs, and the possibility of a fellowship.

STUDENT PROCEDURES

Admission

High school graduates who are interested in the field of business and who are admitted to the University of Southern Mississippi as beginning freshmen will be admitted directly to the College of Business Administration.

Students desiring to transfer from another school or college in the University must be in good academic standing and must bring to the Office of the Dean a transcript. Indication that the student will succeed in his work is necessary.

Transfer students from other four-year colleges or universities are admitted directly to the College upon admission to the University.

Transfer students from junior colleges are especially welcome to the College. A junior college student intending to come to the University should concentrate on completing his requirements as listed below in Basic Curriculum Outside College of Business Administration. He should limit his courses in business to principles of accounting and principles of economics. The College will not accept as meeting curriculum requirements business courses which are taught at the junior college but which are taught here at the junior or senior level. Courses which are designed by the junior college as technical training courses or remedial courses of subcollegiate level may not be used in meeting degree requirements. It is imperative that the student pay particular attention to the requirements in mathematics.

Advisement

Upon admission to the College, the student is assigned an adviser by the Office of the Dean. His adviser will be his department chairman or someone designated by the chairman who will approve his schedule each quarter, provide counsel when necessary, and sign his application for degree as the first step toward meeting degree requirements.

Continuation

While in the College the student must maintain the quality point average prescribed for his number of hours undertaken as designated under University regulations or face academic suspension. If suspended, the student may make application for reinstatement through forms provided in the Office of the Dean. His application is acted upon by the Reinstatement Committee which reviews these applications the day prior to the registration period of each quarter and interviews those students who are denied reinstatement and wish to appeal.

Graduation Requirements

To receive the Bachelor of Science in Business Administration degree from the College of Business Administration the senior year's work (32 semester hours) must be taken on the Hattiesburg campus.

Of this requirement a sufficient number of hours of senior level courses in the major field must be taken to assure the quality of the degree. The absolute minimum is nine (9) semester hours though this may be higher depending upon the recommendation of the department chairman.

This policy applies to all students, including transfer students from other colleges and universities and those students at USM-Gulf Park and USM-Natchez.

The transfer student must meet the quality point requirements for work undertaken on the Hattiesburg campus that apply to all our regular students.

For graduation the student should file his application for degree two quarters in advance of his anticipated quarter of graduation, and no later than mid-term of the quarter prior to the graduation quarter. The application form with instructions is to be picked up in the Office of the Dean. The degree application does not become a formal type of contract with the student for graduation until it has been thoroughly checked for all requirements by the degree clerk of the College in the Registrar's Office and approved by the Dean. Any changes requested on the application after its acceptance must come from the Office of the Dean.

To meet graduation requirements the student must meet all requirements of his curriculum and have a 2.0 average overall, in his major requirements, and in the College of Business Administration. He must have a minimum of fifty-two (52) semester hours in the College of Business Administration as well as a minimum of fifty-two (52) semester hours in the Colleges of Liberal Arts and Science and Technology. Total hours required for graduation are 128.

Placement

The College cooperates with the University Placement Bureau in assisting its graduates in finding positions. The student is expected to establish a file with the Bureau three quarters before graduation to avail himself of the opportunities to be interviewed or contacted by the many businesses and governmental bodies interested in business graduates.

Student Organizations and Student Assistance

The College promotes several professional and honorary societies for students in order to foster fellowship and scholarship among those with similar interests. These organizations are: Alpha Epsilon Alpha, professional fraternity in accounting; Delta Sigma Pi, professional fraternity for men in all areas of business; Omicron Delta Epsilon, honorary society in economics; Phi Chi Theta, professional fraternity for women; Rho Epsilon, professional fraternity in real estate; Society for Advancement of Management, professional fraternity in management; and U.S.M. Chapter-American Marketing Association. Representatives from these fraternities and other students constitute the Business Student Advisory Council which works closely with the Dean in several projects.

There are several scholarships available exclusively for students in the College of Business Administration as well as many others for which business students may apply. Any inquiry should be addressed to: Director of Student Aid and Scholarships, Southern Station, Box 101, Hattiesburg, Mississippi 39401.

BASIC CURRICULUM OUTSIDE COLLEGE OF BUSINESS ADMINISTRATION

The business graduate, though career oriented, must live and work in a changing society which will continually offer him personal and business challenges. Business leaders must have a background which makes them cognizant of the past, articulate in many subjects, and adaptable to change. After much deliberation the faculty of the College has adopted the following courses from the arts and the sciences to give the business student the background upon which he will then add his knowledge of basic business tools and specialized subjects.

It may be observed that the courses include primarily those at the freshman and sophomore level. Unless specified as such the student may choose to substitute junior and senior level courses if they are of particular interest to him.

Remedial courses in English, mathematics, and science may not be counted toward meeting degree requirements.

Courses	Hours
English 101, 102 (Freshman English)	6
Social Science (geography or political science)	3
History	6
*Mathematics 101, 112 (algebra)	6
Public Address 111 (or advanced course)	3
Science (biology, chemistry, fundamentals, geology, physics)	6
Humanities (literature, allied arts, philosophy, foreign language, religion)	9
Behavioral Science (anthropology, psychology, sociology)	6
**Mathematics or Science Elective	3
Elective-Behavioral science, computer science, social science, or mathematics	3
Physical Education or ROTC/AFROTC or approved substitute	2 or 3
	53 or 54

*Accounting–Data Processing majors will substitute Mathematics 103 and 171.
**All majors in Professional Accounting must choose MAT 312 as the elective. Any mathematics course must be above the MAT 100-level.

BASIC CURRICULUM WITHIN THE COLLEGE OF BUSINESS ADMINISTRATION

The following business courses are required of all students in the College regardless of major. They provide the student with his basic business tools which he will use for advanced courses as well as a broad understanding of the entire area of business and of the economy in which business operates.

Courses	Hours
Accounting 201, 202–Principles of Accounting	6
Economics 255, 256–Principles of Economics	6
GBA 290 or CSS 240–Fundamentals of FORTRAN	3
*GBA 295–Legal Environment of Business	3
**Accounting 300–Administrative Accounting	3
Marketing 300–Principles of Marketing	3
Economics 301 or CSS 211–Statistics	3
***Economics 302–Statistics II	3
Economics 330–Money and Public Policy	3
Management 360–Fundamentals of Management	3
Finance 389–Business Finance	3
Management 485–Administrative Policy	3
	42

*Professional Accountancy majors must also take GBA 311, **Advanced Business Law.**
**All accounting majors will delete this course and go directly into Accounting 301.
***Accounting-Data Processing majors will delete this course.

DEPARTMENT OF ACCOUNTING (ACC–605)

Jerold J. Morgan, Chairman
H. Anderson, S. Carpenter, Cummings, Dear, J. Everett, Harris, H. Jackson, Kenamond, McDuff, Parker, Torres

Two programs are offered by the Accounting Department. The first is intended to prepare students for professional positions in industry, government or public accounting, and to provide a firm foundation for those students planning to do graduate work in accounting. This program includes all the courses necessary to sit for the certified public

accountants examination. The second program is offered jointly with the Department of Computer Science and Statistics, and is directed more specifically to the needs of students who are planning careers in business data processing or accounting systems. The requirements of the two programs are set out below and are entitled "Professional Accountancy" and "Accounting–Data Processing" respectively.

Students wishing to minor in accounting should take the following courses: Accounting 201, 202, 301, 302, and 320 and 330.

Major–Professional Accountancy

Accounting 301–Intermediate Accounting I	3
Accounting 302–Intermediate Accounting II	3
Accounting 320–Elementary Cost Accounting	3
Accounting 330–Federal Income Tax Accounting I	3
Accounting 401–Advanced Accounting I	3
Accounting 402–Advanced Accounting II	3
Accounting 420–Advanced Cost Accounting and Budgeting	3
Accounting 409–Auditing	3
Accounting 405–Current Accounting Theory and Research	3
Accounting Electives	3

Major–Accounting-Data Processing

	Hours
Accounting courses as listed below:	
Accounting 301–Intermediate Accounting I	3
Accounting 302–Intermediate Accounting II	3
Accounting 320–Elementary Cost Accounting	3
Accounting 330–Federal Income Tax Accounting I	3
Accounting 409–Auditing	3
Accounting 450–Accounting Systems	3
Computer Science courses as listed below:	
Computer Science 320–Linear Programming Techniques	3
Computer Science 340–Advanced Fortran	3
Computer Science 341–Digital Computer Programming	3
Computer Science 342–COBOL Programming	3
Computer Science 442–Business Computer Systems	3
Computer Science 480–Data Processing and File Management	4

DEPARTMENT OF ECONOMICS (ECO–610)

Jack C. Wimberly, Chairman

M. Baldwin, Black, Cameron, Cartee, Daniel, M. Everett, Greene, E. Lewis, Li, McQuiston, Whitesell, D. C. Williams

The major curricula in economics are intended to prepare students for positions as economists in education, business, and government. The recommended minor in economics constitutes a systematic study of the economic environment in which we live. A few advanced courses have been designed to provide appropriate instruction in economics to students in other major fields; and several comprehensive introductory courses may be taken by those who are interested in economics in a less formal way.

The recommended minor in economics outside the College of Business Administration consists of Economics 255, 256, 301, 310, 330, 340, and 345.

Major–Economics (Bachelor of Science Degree)

	Hours
Economics 340–Price Theory	3
Economics 345–Income Theory	3
Economics (Electives)	15

Major—Economics (Bachelor of Arts Degree)

The degree of Bachelor of Arts in Economics is granted by the College of Liberal Arts. The Department of Economics requirements are listed here.

Departmental Requirements

	Hours
Major in Economics*	27
Economics 301—Elementary Statistics I	3
Economics 302—Elementary Statistics II	3
Economics 330—Money and Public Policy	3
Economics 340—Price Theory	3
Economics 345—Income Theory	3
Economics (Electives)	12

*Students considering graduate work in economics should consult frequently with department advisers and are urged to take some mathematics courses beyond the minimum core requirements.

Major—Latin-American Foreign Trade

See Major in Latin American Foreign Trade under Latin American Studies in the College of Liberal Arts.

DEPARTMENT OF FINANCE AND GENERAL BUSINESS

William A. Sirmon, Chairman

Burton, Clements, Dennis, Hamwi, Jordan, R. T. King, Walley, West, White

This department offers major fields of study in three areas: Banking and Finance, General Business Administration, and Real Estate and Insurance. The policy of the department is to stress education in the selection and handling of tools for problem-solving, analysis, and decision-making in each of the three areas of study. An approach of this kind is premised on the belief that the best qualification for administering business in the three areas is a mind disciplined to identify and analyze administrative issues and to make decisions at all levels of management.

The offerings in the field of Banking and Finance qualify the student for entering administrative training programs of financial and non-financial institutions. Offerings in the General Business Administration field necessarily cut across several segments of the business curriculum including economics, finance, management, and marketing, thus opening the door to a somewhat wider range of job opportunities. Offerings in the Real Estate and Insurance major are, by contrast, more specialized, being designed essentially for the person interested in selling, risk management, and property and agency management, as they relate to the insurance and real estate industries.

The W. Parham Bridges Chair in Real Estate in this department has enabled the department to raise the standards of academic work and to bring about a closer working relationship with the real estate industry in Mississippi.

The student who wishes to further his education may work for the master's degree with an emphasis in finance. This degree will strengthen his qualifications for higher-level administrative positions in business and will also open new doors to teaching, research, and graduate work at the doctoral level.

The department has a recommended minor for non-business majors which requires Accounting 201 and 202, Economics 200, and three electives from **one** of the following fields: Finance; General Administration; or Real Estate and Insurance.

Major—Banking and Finance

	Hours
REI 325—General Insurance	3
FIN 350—Bank Administration	3
FIN 352—Investment Finance	3

FIN 355—Problems in Bank Administration 3
GBA 375—Managerial Communications 3
FIN 472—International Finance or
ECO 401—Public Finance 3
FIN 462—Security Analysis and Portfolio Planning 3
FIN 480—Financial Management 3
Elective in Finance 3

Major—General Business Administration

	Hours
GBA 375—Managerial Communications	3
ECO—Two courses numbered 300 or above (ECO 335 is recommended)	6
FIN 480—Financial Management	3
MGT 364—Personnel Management or MGT 454—Human Relations, plus one other 300 or above course	6
MKT 428—Marketing Management, plus one other 300 or above course	6
REI 325—General Insurance or REI 330—Real Estate Principles	3

Major—Real Estate and Insurance

	Hours
REI 325—General Insurance	3
REI 330—Real Estate Principles	3
GBA 375—Managerial Communications	3
Elect minimum of 6 courses from following 8:	
REI 425—Life Insurance	3
REI 426—Introduction to Actuarial Science	3
REI 430—Real Estate Law	3
REI 432—Real Estate Finance	3
REI 434—Real Property Valuation	3
REI 436—Property Management	3
REI 445—Property and Liability Insurance	3
REI 450—Health Insurance	3

DEPARTMENT OF MANAGEMENT (MGT—620)

Roy N. Moore, Chairman
Bracey, Brooking, J. L. Davis, Etzold, Gottleber, V. Hill,
Sanford, Stegenga

The program of study in management has three objectives: (1) to provide students with concepts, knowledge, and skills required in the effective management of profit-making enterprises, government institutions, and non-profit service organizations; (2) to prepare the student for employment which will lead to positions of managerial responsibility; and (3) to make available to students pursuing technical, educational, and professional careers training in general management to apply in their specialized fields.

Students interested in management have the option of majoring in either industrial or personnel management. The industrial management option places emphasis on manufacturing and production problems such as product engineering, manufacturing methods and equipment, plant layout, production planning, and quality control. The personnel management option emphasizes the human problems of administration including union-management relations, manpower development, compensation, and managerial communications.

Careers in management are available in industry, government, service organizations, and teaching. Beginning employment opportunities for which the management graduates are trained include such jobs as line supervisor, production scheduler and dispatcher, time study man, employment interviewer, training supervisor, and management trainees. Their broad education and training will, when coupled with additional maturity and

experience, serve to further their careers in more responsible management positions, such as production or plant manager, labor relations director, or personnel administrator.

The student desiring graduate study may work for the Master of Business Administration degree with an emphasis in management which will broaden his qualifications for upper level administrative positions, teaching, research, and advanced graduate study.

The recommended minor in management for a non-business major is Economics 255, Management 360, and four courses in the Management Department.

Major—Personnel Management

	Hours
Management 364—Personnel Management	3
Management 370—Labor Law and Legislation	3
Management 386—Safety Management	3
Finance 375—Managerial Communications	3
Management 454—Human Relations	3
Management 456—Industrial Training	3
Management 468—Compensation Administration	3
Management 472—Collective Bargaining	3
Management 484—Problems in Personnel Administration	3

Major—Industrial Management

Management 362—Fundamentals of Industrial Management	3
Management 386—Safety Management	3
Finance 375—Managerial Communications	3
Management 464—Work Methods and Performance Standards	3
Management 466—Production and Quality Control	3
Management 468—Compensation Administration	3
Management 476—Managerial Systems Analysis	3
Management 482—Production Problems Seminar	3

DEPARTMENT OF MARKETING (MKT—625)

Richard C. Vreeland, Chairman

Ivy, Pritchett, Schoell, T. Smith, R. Stevens

There are three basic functions performed by any business organization: marketing, production, and finance. The goal of the Department of Marketing is to prepare students to fill with competency entry-level positions in marketing and also provide the background necessary for higher level management positions in the marketing area. It is necessary, therefore, that the student not only learn the subject of marketing but that he also master certain executive skills, of which ability to think is usually considered the most important. Other attributes of significance are the ability to: (1) solve problems; (2) communicate orally and in writing; and (3) understand and work with people.

The context of marketing courses provides the student with a basic knowledge of marketing principles and techniques. The methods used in teaching the material enable the student to develop the skills necessary to utilize this knowledge after graduation.

Marketing majors can gain employment in the field of retailing as store managers, buyers, and owners of their own store. Others work as salesmen, market managers, and researchers—after additional graduate training. The specific opportunities number in the hundreds since more than half of all people gainfully employed work in the marketing of goods and services.

For a student not majoring in the College of Business Administration, a minor in marketing may be earned by completing eighteen (18) hours of courses in the following recommended sequence:

1. Economics 255, and Marketing 300
2. Marketing 330, 342, and 355 (select any two)
3. Marketing 430, 442, or 455 (select one)
4. One other marketing elective

Students in the department may major in marketing management, advertising, or sales management by completing one of the following programs:

Major—Marketing Management

	Hours
Marketing 322—Marketing Problems	3
Marketing 424—Marketing Research	3
Marketing 428—Marketing Management	3
Marketing 330, 342, and 355 (select two)	6
Marketing 365, 380, 458, and 495 (select one)	3
Marketing 430, 442, and 455 (select one)	3
Management 454—Human Relations	3

Major—Advertising

This is an interdisciplinary major offered by the Department of Marketing in conjunction with the Department of Radio-Television, and Film and the Department of Journalism, College of Liberal Arts.

Students majoring in advertising take a more specialized program than the marketing major to prepare them for the exacting requirements of an advertising career. Advertising graduates are employed as account executives, copy writers, promotional managers, and advertising managers for firms in retailing and manufacturing.

	Hours
Marketing 322—Marketing Problems	3
Marketing 342—Principles of Retailing	3
Marketing 355—Principles of Advertising	3
Marketing 365—Consumer Behavior	3
Marketing 424—Marketing Research	3
Marketing 455—Advanced Advertising	3
Marketing 458—Promotion Development	3
Select three (3) of the following:	9
RTF 311—Radio Production	
RTF 330—Broadcast Advertising	
RTF 440—Television Production	
JOU 331—Print Media Advertising	
RTF 431—Advertising Management and Sales	

Major—Sales Management

The sales management major is designed to prepare students for professional sales and sales management positions with major manufacturers, wholesalers, and multinational corporations. The course sequence specifies courses which are geared to the skills and knowledge necessary to enter these fields.

	Hours
Marketing 322—Marketing Problems	3
Marketing 330—Salesmanship	3
Marketing 365—Consumer Behavior	3
Marketing 380, 495—(select one)	3
Marketing 424—Marketing Research	3
Marketing 428—Marketing Management	3
Marketing 430—Sales Management	3
Management 454—Human Relations	3

NOTES

COLLEGE OF EDUCATION AND PSYCHOLOGY

Eric M. Gunn, Dean
N. Hugh Frugé, Assistant Dean

The University of Southern Mississippi, through its College of Education and Psychology, holds membership in the American Association of Colleges for Teacher Education. All undergraduate programs in teacher education are fully accredited by the National Council for Accreditation of Teacher Education (NCATE). For details of graduate teacher-education programs, consult the **Graduate Bulletin.**

PURPOSES

The purposes of the College of Education and Psychology are: (1) to prepare teachers for the public schools and the colleges and universities; (2) to offer non-teaching degree programs on the undergraduate level in business education, library science, industrial mechanics, psychology and social and rehabilitation services (for graduate level non-teaching degree programs consult the **Graduate Bulletin;** (3) to provide clinical and professional services to the public schools of Mississippi and to the University; and (4) to promote educational and psychological research.

These purposes are achieved through: (1) the work of the various departments in the College; (2) clinics and offices for professional services; (3) cooperation with the public schools; and (4) cooperation with other colleges and schools of the University in the development of teacher education programs that meet requirements for Mississippi certification and NCATE approval.

ADMISSION REQUIREMENTS

Any student who satisfies admission requirements to the University of Southern Mississippi through the Office of Admissions is eligible for admission to the College of Education and Psychology.

An Application for Admission (Form A7) must be approved by the Dean of the College of Education and Psychology and be filed in this office.

The above criteria for admission applies to beginning freshman students, transfer students from within the University of Southern Mississippi, and transfer students from another college or university.

Admission to the College of Education and Psychology **does not** constitute admission to a teacher education program nor to a non-teaching major program. Program planning and proper advisement must be completed to gain admission to both Teacher Education Programs and Non-Teaching Programs.

Regular status in the College of Education and Psychology is maintained by meeting the quality point requirements for hours completed as designated by the general University requirement and evaluated by the Registrar's Office.

General Core, College of Education and Psychology

All students (teaching and non-teaching) are required to satisfy the requirements of the General Core, College of Education and Psychology. Exceptions must be approved by the department chairman and the Dean of the College.

General Core

	Hours
English 101, 102, and two other English courses 200 level or above except ENG 300 and ENG 333	12
History 101 and 102, or 140 and 141	6
Social Sciences	6

Elect two courses from the following for 6 hours (no more than 3 hours from any area):

- Anthropology
- Economics
- Geography
- Philosophy
- Political Science
- Sociology
- Religion (non-teaching majors only)

Science	12
Biological Science–6 hours Physical Science–6 hours (all non-science majors may take the Fundamentals of Science series)	
Mathematics	3
Psychology 110	3
Fine Arts	3
Public Address 111	3
Health 101	3
* Physical Education or ROTC/AFROTC	2
	53

* Students are required to take physical activity courses during the freshman year. Freshman students may elect ROTC/AFROTC 1 in lieu of the physical education requirement. Students participating in varsity athletics. Marching Band, Dixie Darlings, Cheer Leaders, or Pom Pon girls may substitute this for required physical education. Persons with military experience and holders of AA degrees are exempt from physical education activity courses.

TEACHER-EDUCATION PROGRAMS AND REQUIREMENTS

One of the primary functions of the College of Education and Psychology is that of coordinating the teacher education programs for the University. The following objectives were formulated to carry out adequately this function:

1. Attract those students who desire to make teaching a career.
2. Acquaint prospective teachers with all phases of the profession through the tutelage of a competent college staff.
3. Provide programs of basic studies and preteaching activities which will insure a minimally acceptable level of teaching knowledge and skill in an area of specialization within each student.
4. Make available to students the educational resources and support services needed to complement their instructional program.
5. Maintain a continuous counseling service which will help to guide students in the proper selection of courses for their personal and professional development.
6. Sustain an orderly system of selecting and retaining those individuals who perform at or above those standards required by the Teacher Education Council.
7. Encourage both instructors and students in the various classes to visit and observe local schools in day-to-day operations.
8. Study, screen, and assign students to school classrooms where qualified teachers can provide certain pre-teaching experiences.
9. Aid students in obtaining state certification in their area or areas of specialization.
10. Help students make appropriate career decisions.
11. Provide prospective employers with proper information regarding the student's performance at the University.
12. Utilize a system of follow-up on each student's performance as a classroom teacher.
13. Make staff members available to local school inservice programs which are designed especially for staff and/or curriculum improvement.

Criteria for Admission to Teacher Education Programs

All applicants for admission to a program leading to teacher certification must be approved by the **Screening Committee.**

Freshmen and sophomores who have indicated a desire to pursue a Teacher Education Program will be notified at the proper time for filing the Program Plan-Teaching Form.

Application for admission to a teacher education program is accomplished by:

1. Obtaining the Program Plan-Teaching Form (Ed 8a) from the College of Education and Psychology Dean's Office.

2. Filling out this form properly with the major adviser and help of an education adviser.
3. Having this form checked and turned in to the designated adviser in the Department of Curriculum and Instruction.
4. Having the Curriculum and Instruction adviser forward the Program Plan-Teaching Form to the Dean's Office, College of Education and Psychology.

Upon receiving the required forms, the Dean's Office will initiate a file on the student.

Once this sequence is accomplished successfully, a T.E. should be evidenced each quarter on the Registration Appointment Form. This symbol indicates to all advisers involved that an approved program plan for teaching certification has been checked and filed in the College of Education and Psychology Dean's Office.

Criteria which must be met for tentative approval include the following:

1. An overall 2.0 grade point average.
2. At least a C average in first year English. (If this is not met, English 332 must be taken to remove the deficiency. If ENG 332 is taken to remove the deficiency, the course may not then be used toward the twelve (12) semester hours of required English.)
3. Acceptable physical health status.
4. Emotional stability.
5. Satisfactory personal characteristics.
6. Never have been convicted of a felony.

The above criteria are rated (yes, no, and doubtful) on the initial interview by the education adviser. Each applicant whose credentials satisfy the above criteria for general screening will be referred to the selected major department sub-committee for additional screening. A computer listing of all students working toward teacher certification (compiled by utilizing the T. E. symbol on the Registration Appointment Form) is sent twice a year to each major department involved in teacher education programs. The departmental sub-committee either endorses these students or may refer, in writing, any student to the Screening Committee for further screening action. Thus the screening procedure is a continual process throughout a student's program. The decision of the sub-committee will be reported to the Screening Committee.

The Screening Committee will give final approval or disapproval of the applicant to pursue a teacher education program and notify the department chairman. If an applicant is not approved or is screened out at any point, an appeal may be made to the Screening Committee for further evaluation.

Teaching Certification

Students preparing to teach must choose a teaching area from one of the following:
Nursery—Early Childhood (N,K-3)
Early Childhood Education (K-3)
Middle Grades (4-8)
Comprehensive Elementary Education (K-8)
Secondary Education (7-12)
Special Areas (1-12)

To prepare for a career in secondary education the student will major in an academic area and fulfill the general and professional requirements listed under the Secondary Education Section (see Department of Curriculum and Instructions).

Requirements for Teaching Degrees

The student preparing to teach will normally pursue the Bachelor of Science degree which is offered in the College of Education and Psychology. It is permissible for a student to graduate from any school or college that offers a teaching major if the student prefers. However, all students who desire to become teachers must apply for admission to the Teacher Education Program in the College of Education and Psychology and be screened according to the preceding procedure for admission to the program.

The requirements of the College of Education and Psychology consist of courses

essential to certification and institutional endorsement. These requirements vary for elementary and secondary education degree candidates. **The National Teachers Examinations are required of all candidates for the teaching degree.**

Requirements for Non-Teaching Degrees

The College of Education and Psychology offers major programs in psychology, library science, office management, executive secretarial studies, bilingual secretarial studies, social and rehabilitation services, and industrial vocational areas leading to the Bachelor of Science non-teaching degree. Students in psychology and library science may take programs leading to the Bachelor of Arts degree.

Bachelor of Arts (Non-Teaching)

The requirements for the Bachelor of Arts non-teaching degree are the same as those for the Bachelor of Science non-teaching degree with one exception. Students in the Bachelor of Arts program must complete six (6) to nine (9) hours in a foreign language. Those students who have completed two years of the same language in high school and who make satisfactory placement test scores may meet the language requirement by completing six (6) semester hours in the same language at the 200 level or above.

Major Requirements and Electives

Students should consult with their major departments concerning the major and/or minor requirements and electives which constitute the balance of the degree requirements.

SPECIAL SCHOOL SERVICES

Office of Student Teaching

Leroy Rogers, Director

The basic purpose of the student teacher program is to provide all students in teacher-education with opportunities that will assist them in developing the skills and competencies necessary for a beginning teacher. The student teaching program provides an environment for a realistic evaluation of the strengths and weaknesses of prospective teachers.

All student teaching is done in off-campus cooperating schools designated by the Director of Student Teaching. The student teacher's assignment is for a full-day, full-quarter for which he earns nine (9) semester hours credit. Supervision is provided by cooperating school personnel and faculty members of the University.

Each student must follow the procedure listed below in submitting both his request and application for student teaching.

REQUEST—Formal request must be submitted to the Office of Student Teaching during the registration period two quarters prior to student teaching. Request for fall quarter student teaching must be filed during the registration period of the previous winter quarter. There is no regular student teaching during the summer quarter.

APPLICATION—On the day the student is regularly scheduled to register, one quarter prior to student teaching, the prospective student teacher must obtain his application for student teaching. The application must be completed and submitted with his adviser's signature within ten days from date of registration. All student teachers:

1. Must have completed a minimum of 88 semester hours of college work.
2. Must have completed a minimum of sixteen (16) semester hours in their major field, six (6) of which must have been taken in residence in this institution.
3. Must have at least a 2.2 overall average at the time they submit their application.
4. Candidates for student teaching in the elementary school must have completed the following courses—CIF 300, CIE 301, 305, 306, 309, 311 or 213 EPY 370 and 374.
5. Candidates for student teaching in the secondary school must have completed CIF 300, EPY 372 and 374 and special methods courses listed as CIS 451-465.
6. Must have been admitted to a teacher-education program for at least two quarters.
7. Must expect to spend the entire school day in an off-campus school designated by the Director of Student Teaching.

Candidates for student teaching in the secondary school should register for CIS 313, **Principles of Teaching in High School,** simultaneously with student teaching.

Candidates for student teaching in the elementary school should register for CIE 343 or 425, **Methods and Materials in Elementary Education,** simultaneously with student teaching.

The individual nine-hour courses in preservice student teaching are: **Elementary Education**—CIE 480 (Lower Elementary), and CIE 482 (Upper Elementary); **Secondary Education**—CIS 481 (Business Education), CIS 482 (Art Education), CIS 483 (Industrial Arts), CIS 484 (English), CIS 485 (Foreign Language), CIS 486 (Sciences), CIS 487 (Mathematics), CIS 488 (Social Studies), CIS 489 (Speech), CIS 491 (Health and Physical Education), CIS 492 (Library Science), CIS 493 (Music Education), and CIS 494 (Journalism); **Special Education**—SPE 480 (Mentally Retarded), SPE 482 (Visually Handicapped), SPE 483 (Physically Handicapped), and SPE 485 (Learning Disabilities).

Regulations for Admission to Student Teaching Seminar CIE 489 and CIS 495

Student teaching for in-service teachers will be offered each summer quarter for six (6) semester hours. To be eligible for this course:

1. The applicant shall submit evidence of two years teaching experience and a recommendation from a principal or superintendent under whom the applicant has worked.
2. The applicant shall present evidence of a contract for the coming school year.
3. The applicant shall have previously earned twelve (12) semester hours from this institution and shall not be on probation.
4. The applicant must be in an undergraduate degree program at this institution.
5. The applicant must be teaching in Mississippi.
6. The applicant must meet all the requirements for student teaching.
7. Permission to enroll in these classes shall be granted by the Director of Student Teaching following an interview with the applicant.
8. Application for in-service student teaching must be made in the Student Teaching Office by March 30.

TEACHING INTERNSHIP

A teaching internship is offered as an alternate program in teaching certification. The student selecting this program must participate for one school year as an intern in a school system that has been approved as an intern center. Selection of students for the program is made by the participating school system with approval by the University. Any student desiring to enter this program should contact the Director of Interns in the College of Education and Psychology as he enters his junior year.

CIE 492 Internship in Kindergarten and Primary Education
CIE 493 Internship in the Middle School
CIS 496 Internship in Secondary Education

Nine (9) hours credit is awarded at the successful completion of three quarters of experience in an approved internship. **EPY 470** and **CIF 421** must be completed during the internship. Enrollment is by permission of the Director of Interns only.

Educational Media Center

Robert V. Price, Acting Director
Shaffer, R. P. Thomas, Walt, J. L. Young

To be of more service to the schools of Mississippi and to provide higher standards of teacher education and campus instructional services, the University has established the Educational Media Center. The Center administers a regional film library, campus educational television, graphic and audiovisual services, as well as teacher education laboratories for curriculum materials, teaching the use of audiovisual equipment, and the production of instructional materials of all kinds.

The Educational Media Center carries out a multiphased service program of instructional development, media production, and research which is designed to function cooperatively with all areas of the University community. The Center's staff of media specialists is available to assist local school districts with faculty in-service workshops, surveys, consulting services, and with the design and development of instructional systems for individual instruction, ungraded schools, and adult education.

The curriculum plan encompasses graduate and undergraduate offerings. Basic courses are designed to provide an overview for prospective teachers, while graduate courses are designed to supplement existing programs and to provide a nucleus for individuals with a strong interest in media at the graduate level.

The University Film Library serves members of the South Mississippi Educational Film Association, and it rents films to non-member schools at a minimum rental charge. This cooperative film library has served the schools of South Mississippi for 27 years, and it is continuing to upgrade and expand its offerings in all fields. School administrators may obtain film catalogues and staff services by writing to:

The Director
Educational Media Center
Southern Station, Box 54
Hattiesburg, Mississippi 39401

Psychology Clinic

The University of Southern Mississippi, through the Psychological Clinic, affords graduate students in psychology opportunities for clinical experience in a psychology practicum setting. Training and experience in diagnostic testing, psychological appraisal, psychotherapy, and behavior modification techniques are the primary foci of the Clinic's function. Work with both children and adults provides doctoral level graduate students specializing in the clinical areas with a variety of experiences with different forms of maladaptive behavior and learning problems.

Another major function of the Clinic is to provide psychological services to University students. Additionally, service to the community and to the state in the form of diagnosis and treatment of emotional and learning problems is an important function of the Clinic.

Members of the Clinic's staff and the Psychology Department offer consultation to other clinics on the campus and work with them on various related problems.

University students, faculty and staff personnel, public school teachers, physicians, and other interested persons may obtain psychological services by applying to the Clinic.

In ALL cases, student clinicians are closely supervised by experienced clinical personnel.

The Reading Center

George H. McNinch, Director

The primary responsibility of the Reading Center is in promoting effective teacher education for elementary and secondary students in methods, techniques, and materials in reading and language arts. Focus of the programs is at the undergraduate, master's and advanced graduate levels emphasising theory, practice, evaluation, and research. The Reading Center is able to offer limited services in diagnosis of reading problems and remedial reading to children referred to the Center. The cost of the diagnostic evaluation which includes a suggested program of remedial procedures is $20.00, or a proportionate part, based on ability to pay. Remedial instruction, provided by a graduate or undergraduate student on a limited basis, is $25.00 per quarter.

An up-to-date collection of materials used for elementary, secondary, or adult reading instruction and a library of children's books are open for examination.

University students and adults may obtain testing, counseling, and special instruction in the reading areas of comprehension, vocabulary development, and study skills improvement through enrolling in the Center's "Improvement of Study" course.

An annual reading conference is held each year in the spring or summer. Nationally known reading authorities are featured on the program.

Bureau of Educational Research

Richard Kazelskis, Director

The Bureau of Educational Research is an administrative entity of the Office of the Dean, College of Education and Psychology, at the University of Southern Mississippi. The primary purpose of the Bureau is to provide research and dissemination services to University students, faculty, and the public schools within the State of Mississippi. Major functions include technical assistance in research design and data analysis, coordination of faculty research, reporting of research and professional activities of faculty and students, and independent evaluation of special projects and programs within the College of Education and Psychology.

The Bureau has developed a system of computer programs available for the treatment and analysis of data and provides training and assistance in the utilization of electronic calculators for more limited data treatment requirements. In addition, special services relative to measurement instruments and other specialized research tools are provided.

Additional information may be obtained by contacting the Director of the Bureau of Educational Research.

Counseling Laboratory

Ben Hutton, Director

The Counseling Laboratory, in the Department of Counseling and Guidance, is designed to assist individuals whose problems fall within the realms of educational planning, school placement, academic exploration, vocational or career decision-making, and personal-social adjustment. It serves two purposes: (1) to offer professional service to persons seeking such services, and (2) to provide qualified graduate students the opportunity to observe and apply theoretical concepts.

The Laboratory is available to anyone of any age, students or general public, whose problems fall within the scope of the services outlined above. These services are not restricted to any particular area nor to any particular group.

The staff of the Counseling Laboratory is composed of members of the teaching faculty of the Department of Counseling and Guidance and graduate students under their supervision. The Laboratory has been evaluated and approved by the International Association of Counseling Services, Inc.

Write, telephone, or contact in person:
Dr. Ben Hutton, Director
Counseling Laboratory
Southern Station, Box 5327
Hattiesburg, MS 39401
Phone: 266-7151 or 7163.

Early Childhood Education Laboratory School

Mary Ellen James, Director

The Children's Laboratory of Learning offers a half-day program to kindergarteners and an all-day program to first graders. The Laboratory School is a part of the Curriculum and Instruction Department of the College of Education and Psychology, and it functions as a site for graduate and undergraduate teacher training in methods and materials used in Early Childhood Education. The Laboratory School also functions as a site for adjunct services offered in the Speech and Hearing Clinic, Special Education Department, Physical Education Department, and other colleges and schools within the University.

Staff members are available for consultant services, in-service workshops, and off-campus courses.

Speech and Hearing Clinic

Robert C. Rhodes, Director

The Speech and Hearing Clinic is operated by the Department of Speech and Hearing Sciences in the College of Liberal Arts, but it works with the College of Education and Psychology in the preparation of Special Education teachers. The Clinic is located in the Honor House.

This Clinic has a dual function. It provides facilities for the training of specialists in the area of clinical speech, audiology, and language disorders, and provides clinical services for persons with speech, hearing, and language problems.

The Clinic's services include diagnostic examinations and therapy programs for both children and adults who have speech or hearing problems. These services are available to both University students and members of the community at nominal fees.

School For Children With Language Disorders

N. Etoile DuBard, Director

The School for Children with Language Disorders is administered by the Department of Speech and Hearing Sciences and is housed in the George Hurst Building. It functions as a laboratory school for children with language disorders related to deafness, childhood aphasia, or dyslexia. Children may be enrolled on a full-time, part-time and out-client basis for supportive instruction, depending upon the child's needs and the availability of teaching personnel and space. Diagnostic services for children exhibiting difficulties in language or learning are available.

Financial support is provided by the Forrest-Lamar United Way and the State Department of Education in addition to tuition and fees.

Students who have completed specific prescribed courses work may obtain clinical hours for practicum and/or academic credit in the school. Stipends are sometimes available for students qualifying for work in the school.

DEPARTMENT OF BUSINESS EDUCATION (BED–105)

L. Annelle Bonner, Chairman

M. Borthwick, B. Davis, D. Conerly, S. Green, C. Lewis, G. Taylor

The Department of Business Education offers curricula in business teacher education, office management, two four-year programs in executive secretarial studies, and a two-year program leading to a specialized certificate in secretarial training.

The student who plans to teach business subjects on the high school level will follow the curriculum prescriptions which lead to the Bachelor of Science teaching degree. He will enroll in the College of Education and Psychology. He must meet the admission requirements for the College. His major field of concentration will be in business subject matter prescribed by the Department of Business Education. The professional education and psychology requirements constitute the minor.

A student interested in becoming a legal or a medical secretary can get increased emphasis in the professional field chosen through consultation with an adviser who will make necessary minor changes in the Executive Secretarial Studies program.

The recommended minor in secretarial studies is nine (9) hours in typewriting, nine (9) hours in shorthand, and nine (9) hours in advanced business education courses. A year of typewriting and a year of shorthand taken in high school will reduce the number of recommended hours to twenty (20).

To complete the curriculum requirements in business teacher education, executive secretarial studies, or secretarial training, one course in typewriting and one course in shorthand must be taken at the University of Southern Mississippi.

A student with one year of typewriting in high school cannot get credit for BED 101, and a student with one year of shorthand in high school cannot get credit for BED 201. A student who has had more work than this in either or both fields should consult with the chairman of the Department of Business Education about the appropriate beginning courses for his program.

BUSINESS TEACHER EDUCATION

	Hours
College of Education and Psychology	
General Core Requirements	53
Professional Education and Psychology	27
(Refer to Secondary Education Professional Requirements)	
These courses constitute the minor in business teacher education.	
The special method course is CIS 451.	
Departmental Subject Matter Requirements	55
BED 102, 310; BED 202, 305, 471; ACC 201, 202, 300; BED 300, 352, 354, 485, 450, 452, 453, 460; ECO 256; GBA 100 and 295. Business skills courses taken in high school will reduce the total number of hours required for the major.	
Electives to complete a total of 135 hours (Recommended courses are CGE 101, BED 480, CIF 416, CSS 240, ECO 330, FIN 389, MGT 360, MKT 300)	
	135

OFFICE MANAGEMENT

	Hours
College of Education and Psychology	
General Core Requirements	53
With these exceptions: Students majoring in Office Management are required to take ECO 255, 256, and one elective from SOC 101 or 201, GHY 103, or PS 101. Students majoring in Office Management are required to take only nine (9) hours of science, but they must take six (6) semester hours of mathematics from MAT 101 or 112, and 120.	
Major Requirements	67
* BED 102, 310, and 354	8
BED 300	3
BED 352	2
BED 450	3
BED 460	3
BED 480	3
BED 485	3
ACC 201, 202, and 300	9
MKT 300	3
GBA 295, 311 and FIN 389	9
ECO 330	3
MGT 350, 362, 484, 454, 468	15
PSY 251	3
MAT 360	3

* See note below relative to business skills courses.

Electives to total 128 hours (Recommended courses are CGE 101, ECO 301, CSS 211, CIF 334, GBA 100, SOC 101)	
	128

EXECUTIVE SECRETARIAL STUDIES

	Hours
College of Education and Psychology	
General Core Requirements	53
With these exceptions: Students majoring in Executive Secretarial Studies are required to take ECO 255, 256, and one elective from SOC 101 or 201, GHY 103, or PS 101. Students must take three semester hours from MAT 120, 101, or 112. They are required to take only nine (9) hours of science.	

Major Requirements	61
* BED 102, 310, and 354	8
*BED 202, 305, 471, 472	12
BED 300	3
BED 352	2
BED 450	3
BED 460	3
BED 480	3
BED 485	3
ACC 201, 202, and 300	9
MKT 300	3
GBA 295, 311 and FIN 389	9
ECO 330	3

* Business skills courses taken in high school will reduce the total number of hours required for the major. Hours thus saved may be applied to these recommended courses: GBA 100; PSY 251; SOC 101; CGE 101; CIF 334; CSS 210.

Electives to total 128 hours	
	128

BILINGUAL EXECUTIVE SECRETARIAL STUDIES

	Hours
College of Education and Psychology	
General Core Requirements	53
With these exceptions: Students majoring in the Bilingual Executive Secretarial Studies program must take nine (9) hours of social science—ECO 255, 256, and either GHY 403 or 404. Students may take PA 111 or 210. ARE 207 is required as the fine arts course. They are required to take only nine (9) hours of science.	
Major Requirements	64
BED 101, 102, 310, 354	11
BED 201, 202, 305, 471, 472	15
BED 300	3
BED 352	2
BED 450	3
BED 460	3
BED 480	3
BED 485	3
ACC 201 and 202	6
GBA 295; FIN 389, 472	9
ECO 330, 413	6
Major requirements in Spanish (minimum)*	128
	145

*Guidance for this major is provided by the Department of Foreign Languages.
Business skills courses and Spanish taken in high school will reduce the total number of hours required for the majors. Hours thus saved may be applied to these recommended courses: GBA 100; CGE 101; ACC 300; other humanities and fine arts and social science courses listed in Core Requirements.

One academic quarter of this four-year program may be taken during the senior year in a foreign country at a university or institute approved by the University of Southern Mississippi.

SECRETARIAL TRAINING

The two-year program in secretarial studies is a terminal program for students who wish to prepare for secretarial employment but do not wish to pursue a baccalaureate degree. The program leads to a specialized certificate in secretarial training. Required courses are shown below:

	Hours
Required General Courses	20
ENG 101, 102, and one intermediate English	9
PA 111	3
MAT 120 or MAT 101	3

PED	2
Social Studies—PS 101, HIS 101, 102, SOC 101, GHY 103, or PSY 110	3
(Select one)	
Required Business Courses as listed below	46
*BED 102, 310, and 354	8
*BED 202, 305, 471, and 472	12
BED 300	3
BED 352	2
BED 450	3
BED 460	3
BED 485	3
ACC 201 and 202	6
ECO 255	3
GBA 295	3
Electives (if needed)	
	66

*A student who has had one year of typewriting in high school will start his program with BED 102; one who has had a year of shorthand in high school, with BED 202. The hours saved are to be used on the following courses: GBA 100, ECO 256, ACC 300, CIF 334, CGE 101, BED 480, or the social studies listed in the core requirements.

DEPARTMENT OF COUNSELING AND GUIDANCE (CGE–140)

John D. Alcorn, Chariman

Boroughs, Burch, Cambridge, Culberson, Daniels, Durkee, Gutsch, Hopkins, Hutton, Massey, Probst, Randolph, Shafer, J. Stevens, Sturgis

The Department of Counseling and Guidance offers both graduate and undergraduate programs. At the graduate level, separate curricula are offered to prepare students for positions in elementary and secondary school, college, and community agency settings. See the **Graduate Bulletin** for course patterns of each curriculum. The department offers work leading to the Master of Education in School Counseling; the Master of Science in College Counseling and in Community Counseling; and the Specialist degree in Counseling and Guidance. The Doctor of Philosophy degree is offered in Counseling and Guidance with separate emphases in School Guidance Services and Student Personnel Services. The course pattern included in the Master of Education program in School counseling will meet Mississippi State Department of Education requirements for AA certification as a school counselor.

The undergraduate curriculum provides an inter-departmental major in Social and Rehabilitation Services. Four alternate programs are offered within the major. The counseling Associate program is designed primarily as entry-level preparation for students planning to enter positions in agencies or institutions providing rehabilitative, social, or mental health services. Three pre-professional programs are offered which prepare students for entering professional graduate training programs in counseling, psychology, or social work, respectively. Other undergraduate courses are offered as introductions to aspects of counseling and guidance work and may be used as electives subject to the approval of program advisers in the respective departments.

The general requirements for a major in Social and Rehabilitation Services consists of the General Core of the College of Education and Psychology outlined under **Curricular Requirements For Non-Teaching Degrees on page 78.** *The major in Social and Rehabilitation Services is designed so that a student entering from other colleges with the core requirements completed can complete the sequence within six to seven quarters.

The program in Social and Rehabilitation Services provides an inter-departmental major which includes 30 semester hours in Social and Rehabilitation Services courses, 9 semester hours in sociology courses (excluding introduction), and 9 semester hours in psychology courses (excluding introduction). In addition to the 53 hours in Core

Requirements for the College of Education and Psychology other courses include 12 semester hours in special areas and 23 hours in electives. A minor is not required; however, the student may choose a minor in a related area, in which case, courses included under the inter-departmental major may be used in the minor area. It is necessary to include at least 18 semester hours in such a minor.

Social and Rehabilitation Services Major

	Hours
General Core, College of Education and Psychology	53
Major Requirements	60
Departmental Courses	30
Required: CGE 310, 311, 312, 360, 361, 413, 431, 462	
Choose six additional hours from: CGE 423, 430, 432, 433	
Sociology (excluding introductory course)	9
Psychology (excluding introductory course)	9
Special Areas	12
Choose three (3) hours from each of four of the following areas: Business Education, Industrial Education, Management, Special Education, Criminal Justice, Child Development, Adult Education.	
Electives	23
Total Degree Program	136

DEPARTMENT OF CURRICULUM AND INSTRUCTION

Paul W. Peddicord, Chairman
Bobby D. Moore, Coordinator, Elementary Education
Herschel Q. Peddicord, Coordinator, Secondary Education
Bonnie J. Davis, Coordinator, Pre-Professional Programs
Allen, P. Borthwick, C. Campbell, Carmichael, Cunningham, J. C. Davis,
Hensley, James, Johnson, McNinch, Manly, W. Miller,
Mottley, Nielsen, Noble, L. Posey, Rains,
B. Richmond, M. Richmond, Thompson

JOINT ASSIGNMENT WITH OTHER DEPARTMENTS: O'Hare, English; F. Brown, Science Education; Fowler and George, Communication; Dunigan and R. W. King, Mathematics; Hunter, Industrial and Vocational Education; Albertson, Health, Physical Education, and Recreation; Johnson, Foreign Languages; Slater, Art Education; Bonner, Business Education.

Serving as the coordinating agency within the University for the training and preparation of elementary and secondary teachers, the Department of Curriculum and Instruction provides undergraduate and graduate work for both preservice and inservice teachers. A description of the undergraduate programs in elementary and secondary education follows. Please consult the **Graduate Bulletin** for a description of the programs leading to master's, specialist's and doctor's degrees.

ELEMENTARY EDUCATION

Students desiring certification at the elementary school level must fulfill the requirements for one or more of the following four programs: (1)**Nursery-Early Childhood Education** (nursery school through grade three), (2) **Early Childhood Education** (kindergarten through grade three), (3) **Middle Grades** (grades four through eight), and (4) **Comprehensive Elementary Education** (kindergarten through grade eight).

A modified program is available for elementary education majors who wish to obtain basic certification in the middle grades (4-8) as well as additional certification in one or more teaching areas at the secondary-school level (7-12). Although the basic requirements for this program are shown in the sections which follow, interested students should contact the Coordinator of Elementary Education for further information.

General Core: The General core for elementary education majors parallels the General Core for the College of Education and Psychology. Regardless of the program(s) being pursued, all elementary school majors must complete the courses outlined under this section as well as the section entitled **Common Professional Education Requirements.**

	Hours
ENG 101, 102, and two (2) other English courses 200 level or above	12
HIS 101 and 102 or 140 and 141	6
Social Sciences. Elect two of the following: PS 101, SOC 101, GHY 103, ECO 200, ANT 212	6
Science. Six hours of physical science and six hours of biological science are recommended although three hours in either area with nine hours in the other area are acceptable. Fundamentals of Science 131, 132, 133, and 134 are recommended.	12
PSY 110	3
MAT 210	3
PA 111	3
HTH 101	3
ARE 207	3
PED or ROTC/AFROTC	2
Total	53

Common Professional Education Requirements

	Hours
MAT 310	3
EPY 374	3
CIE 309	3
MED 361	3
CIE 306	3
CIE 317	3
CIF 300	3
CIF 416	3
CIF 469	3
CIE 301 Prerequisite: MAT 210	3
Total	30

Special Professional Education Requirements (N, K-3)

Those students desiring to teach in nursery school through grade three will also complete the courses under this section.

	Hours
CD 350	3
CD 351	3
F&N 362	3
CIE 311	3
CIE 412	3
CIE 403	3
SCE 432	3
EPY 370	3
*CIE 480	9
CIE 425	3
Total	36
Electives	9

*Must be done below first grade.

Special Professional Education Requirements (K-3)

Those students desiring to teach in kindergarten through grade three will also complete the courses under this section.

	Hours
CIE 330	3
CIE 311	3
CIE 412	3
CIE 403	3
SCE 432	3
ARE 309	3
MED 362—or SPE 400 or PED 320 or 321	3
CIE 305	3
EPY 370	3
CIE 480	9
CIE 425	3
Total	39
Electives	6

***Special Professional Education Requirements (4-8)**

Those students desiring to teach in grades four through eight will also complete the courses listed below.

	Hours
CIE 312	3
CIE 412	3
ARE 309	3
MED 362or SPE 400 or PED 320 or 321	3
SCE 432	3
CIE 305	3
EPY 370	3
CIE 482	9
CIE 343	3
Total	33
Electives	12

Students who wish to obtain certification in the middle grades (4-8) as well as additional certification in a teaching area at the secondary school level (7-12) should complete the **General Core,** the **Common Professional Education Requirements,** and the courses listed below:

	Hours
CIE 312	3
CIS 451-459, 462, 465, (special methods course)	3
EPY 372	3
CIE 482	9
CIE 343	3
CIS 313	3
Subject area courses necessary for obtaining certification in a teaching field for grades 7-12	12 to 33
Total	36 to 57

Electives (The number of semester hours available for electives will depend upon the secondary-school teaching area chosen.)

Special Professional Education Requirements (K-8)

Those students desiring to teach in kindergarten through grade eight will also complete the courses under this section.

	Hours
CIE 330	3
CIE 311	3
CIE 312	3

CIE 412	3
CIE 403	3
SCE 432	3
ARE 309	3
MED 362—or SPE 400, or PED 320 or 321	3
EPY 370	3
CIE 305	3
CIE 480 and 425	12
(OR)	
CIE 482 and 343	12
Total	42
Electives	3

Areas of Concentration for Certification

Students enrolled in the **Nursery-Early Childhood** and **Early Childhood** programs are required to acquire one area of concentration. An area of concentration in **reading** is included in these two programs; therefore, no additional concentrations are required.

Students enrolled in the **Middle Grades** and **Comprehensive Elementary Education programs** are required to have two areas of concentration. An area of concentration in **reading** is included in these two programs; therefore, students are required to obtain a second area of concentration from those listed below.

Students enrolled in the modified **Middle Grades** program in which additional certification is to be obtained in one or more teaching areas at the secondary-school level are required to obtain two areas of concentration from those listed below.

Areas of Concentration: Recommended Courses

		Total Hours Required
Reading	CIE 412	12
Social Studies	Two social science courses	18
Science	SCE 453, 454, 455	18
English	ENG 401 and one upper-level course	18
Mathematics	MAT 410, 341	12
Library Science	LS 301, 415, 416, 427, 462	15
Speech	PA 210, 310; SHS 201, 202, 211, 401	12
Art	ART 101, 111; ARE 320, 392, 426	15
Music	MUS 101, 102; MED 311	12
Health and PE	HTH 210, 311, 410; PE 284, 320, 321	15
Exceptional Children		
Mental Retardation	SPE 400, 402, 411, 440, 441	15
Learning Disabilities	SPE 400, 402, 411, 430, 431	15

SECONDARY TEACHER EDUCATION PROGRAMS (Grades 7-12)

To qualify for an undergraduate degree with certification to teach at the secondary-school level, the student must complete: (1) the requirements of the General Core, College of Education and Psychology, (2) an academic major in a field of teacher certification, (3) the requirements of the secondary education minor or the secondary education major, and (4) any elective requirements necessary to complete the degree program.

General Core, College of Education and Psychology

All students seeking certification at the secondary-school level must complete the general education requirements listed under the General Core, College of Education and Psychology, page 00. A student receiving the degree from a college or school other than the College of Education and Psychology must also satisfy the core requirements of that college or school.

The specific courses listed below should be taken to satisfy the following general requirements of the General Core, College of Education and Psychology: mathematics—MAT 101 or MAT 120 (MAT 210 and MAT 310 may not be used to satisfy the

mathematics requirements); science—FS 104, 105, 106, and 107 or equivalent laboratory sciences (FS 131, 132, 133, and 134 may not be used to satisfy the science requirement); fine arts—AA 100 or MUS 365.

Academic Major

Students seeking certification at the secondary-school level must complete the requirements for an academic major in a teaching field. Academic majors offered for certification in the various teaching fields at the secondary-school level are:

American Studies*
Biology**
Business Education
Chemistry**
Economics*
English
French
General Speech Education
Geography*
German
History*
Home Economics
Industrial Arts
Industrial and Vocational Education (Trades and Industries)
Journalism
Mathematics
Physics**
Political Science*
Psychology
Science Education**
Social Studies*
Sociology* (general sociology major only)
Spanish
TESOL (Teaching English to Speakers of Other Languages)

*The social studies major provides for a broad preparation in the social sciences and certifies the student to teach all of the social sciences at the secondary-school level. Specific certification in American studies, economics, geography, history, political science, or sociology is not available in Mississippi; however, these majors may receive certification in social studies to teach all of the social sciences if their degree program includes the following courses: HIS 101, 102, 140, 141, and 341 (15 semester hours), economics (6 semester hours), political science (6 semester hours), geography (6 semester hours), and sociology (3 semester hours.)

**Students who plan to teach science at the secondary-school level should select the science education major which certifies the student to teach one or more sciences and general science. Students who desire to major od certify in one science area only (biology, chemistry, or physics) must have the approval of the chairman of the Department of Science Education.

Students should refer to their academic major department for specific requirements for an academic major in their field.

Secondary Education Minor

Students who plan to teach at the secondary-school level must complete the following courses (professional education requirements) which serve as the student's minor: CIF 300, **Public Education in the United States** (3 hours); EPY 372, **Human Growth and Development, Part II: Adolescent** (3 hours); EPY 374, **Educational Psychology** (3 hours); CIF 469, **Tests and Measurements** (3 hours); CIS 451-465, a methods course in the student's academic area (3 hours); *CIS 313, **Principles of Teaching in High School** (3 hours); and *CIS 481-494, **Student Teaching in High School** (9 hours).

*For information concerning the student teaching component, see pages 76 and 287.

Students may not enroll in any of the secondary education minor courses shown above until they have completed and turned in a Program Plan-Teaching Form to the Coordinator of Secondary Education, Department of Curriculum and Instruction, College of Education and Psychology.

Secondary Education Major

In lieu of the secondary education minor, students who plan to teach at the secondary-school level may elect and are encouraged to complete the requirements for a secondary education major which consists of the twenty-seven (27) semester hours described under the secondary education minor plus the following courses: CIS 310, **Junior-Senior High School Reading Methods** (3 hours) and CIF 416, **Audiovisual Education** (3 hours).

SPECIAL AREA TEACHER EDUCATION PROGRAMS (Grades K-12)

The following special area teaching degree programs are offered by the College of Education and Psychology or in cooperation with other colleges and schools of the University:

Art Education*
Education of the Deaf**
Library Science*
Health and Physical Education*
Music Education*
Special Education***
Speech and Hearing Sciences **

*Students seeking special area teacher certification in library science, health and physical education, art education, and music education must complete: (1) the General Core, College of Education and Psychology, (2) an academic major in the selected teaching area, (3) the secondary education minor or major, and (4) any elective requirements necessary to complete the degree program. These reuirements are the same as those for students seeking certification to teach at the secondary-school level (grades 7-12). Refer to page 00 for information concerning these requirements.

**Students seeking special area teacher certification in education of the deaf and speech and hearing sciences should see curricula requirements for these areas which may be found in the section entitled Speech and Hearing Sciences, College of Liberal Arts. Students seeking certification in these special areas will enroll in the College of Education and Psychology, and then will be assigned to the Department of Speech and Hearing Sciences for courses in the major. The undergraduate teaching degree will be awarded by the College of Education and Psychology.

***Students seeking special area certification in special education should see curricula requirements for various special education programs which may be found in the section entitled Department of Special Education, College of Education and Psychology.

DEPARTMENT OF EDUCATIONAL ADMINISTRATION AND SUPERVISION (AED–130)

James H. McPhail, Chairman
B. Anderson, E. Bedenbaugh, Carson, Ginn, M. Karnes,
Rush, D. Stewart, S. Weatherford

The Department of Educational Administration and Supervision offers programs for the preparation of administrators for the public schools and colleges and for teachers of educational administration. These preparation programs are offered only at the graduate level and lead to the master's degree, the sixth year specialist's degree, and the doctor's degree. For a description of these programs, consult the **Graduate Bulletin.**

DEPARTMENT OF INDUSTRIAL AND VOCATIONAL EDUCATION (IVE–165)

William B. Burns, Chairman
Baron, Boyte, Hunter, M. Lanmon, Todd

The Department of Industrial and Vocational Education offers a curriculum leading to the Bachelor of Science degree with majors in Industrial Mechanics (non-teaching), Industrial Arts, and Industrial and Vocational Education. The department also offers programs leading to the Master of Science degree with majors in either Industrial Arts or Industrial and Vocational Education. For a description of the graduate programs, consult the **Graduate Bulletin.**

Through these diversified degree programs the department serves a dual role: providing saleable skills to students who desire a career in industry, and training teachers of industrial subjects.

INDUSTRIAL MECHANICS MAJOR

A major in Industrial Mechanics provides the student with concentrated study and direct experience with machines, power, materials, and industrial processes. This emphasis, when combined with appropriate electives, prepares the non-teaching major for a managerial, supervisory, or technical career in industry.

General Requirements	**Hours**
See College of Education and Psychology Core	53
A minor is not required	
Major Requirements	
IVE 121, 122, 323, 350	12
IVE 331, 332, 333, 334 (Select three courses)	9
IVE 360, 361, 362, 364, 365 (Select four courses)	12
IVE 301, 302, 303	9
IVE 315, 316, 318, 420, 421, 482 (Select four courses)	12
Electives or minor to complete 128 hours	21

INDUSTRIAL ARTS MAJOR

A major in Industrial Arts prepares the student to teach that phase of secondary education which serves to familiarize junior and senior high school students with their industrial and technological environment.

This program includes the University's graduation requirements and state certification requirements. The student automatically minors in secondary education.

General Requirements	**Hours**
See College of Education and Psychology General Core	53
Professional Requirements	
Secondary Education: CIS 313, 453, 483	15
Educational Foundations: CIF 300, 469	6
Educational Psychology: EPY 472, 474	6
Major Requirements	
Drafting: IVE 121, 122, 323, 350 (Select two courses)	6
Woodworking: IVE 331, 333, 334 (Select two courses)	6
Metalworking: IVE 360, 361, 362, 364 (Select two courses)	6
Electronics: IVE 301, 302, 303 (Select two courses)	6
General Shop IVE 116	3
Leather: IVE 314	3
Plastics: IVE 315	3
Power Mechanics: IVE 316	3
Finishing: IVE 332	3
Shop Management: IVE 401	3
IVE electives to complete 128 hours	6

INDUSTRIAL AND VOCATIONAL EDUCATION MAJOR

A major in Industrial and Vocational Education prepares the student to teach a previously attained vocational or technical skill at the secondary or post-secondary level. The program outlined below satisfies all licensing requirements for the post-secondary vocational teacher. An additional fifteen hours of secondary education courses are required for those who wish to prepare for secondary vocational teaching.

General Requirements	**Hours**
See College of Education and Psychology General Core	53
A minor is not required	
Professional Requirements	
CIA 495, Adult Internship	9

Departmental Requirements

Vocational Skill Courses 24
(Will vary with skill speciality)

Vocational Teacher Preparation Courses

IVE 401, 403, 431, 435, 480 15
Select three courses from the following:
IVE 432, 436, 481, 482, CIA 440, EPY 476 9
Electives to complete 128 hours 18

DEPARTMENT OF LIBRARY SCIENCE (LS–170)

Onva K. Boshears, Chairman
Boyd, W. Jones, Long, Pearson, Tracy

A student majoring in library science may work toward either the Bachelor of Arts or the Bachelor of Science non-teaching degree or the Bachelor of Science teaching degree. Students desiring to prepare for positions in public, college, and special library fields should follow either the Bachelor of Arts or the Bachelor of Science non-teaching degree program. Those planning on entering these fields of librarianship should be advised that they will most probably be required to continue their studies at the master's level in order to obtain a professional level position. Students desiring to become public elementary or secondary school librarian-media specialists should follow the applicable Bachelor of Science teaching degree program.

The student's choice of a degree program should be determined by his or her career goals, certification requirements, and in consultation with the chairman of the Department of Library Science.

All student seeking a major in library science need to enroll in the College of Education and Psychology.

Curriculum for Bachelor of Science Degree with a Major in Library Science
(Non-Teaching Degree)

Students desiring to prepare for positions in the public, academic, and special library fields should complete the general, departmental, and minor and elective requirements for the Bachelor of Science or the Bachelor of Arts degree (non-teaching) listed below.

Freshman and Sophomore Years

Hours

General Requirements 53
See requirements listed under General Core for the College of Education and Psychology, page 75.

Junior and Senior Years

Hours

Departmental Requirements (Major) 28
LS 301, 302, 303, 427, 428, 462, 463 or 471, 470, and 489.
The student majoring in library science should take at least twenty-eight (28) hours in the Department of Library Science. Students from departments other than Library Science who desire to minor in library science must take eighteen (18) hours in the department.

Hours

Minor and Elective Requirements 47
In addition to general and departmental requirements, the student must also complete the requirements for a minor, or a dual major in another field, and enough elective hours from any department of the University to complete the 128 semester hours required for a degree. Students should see their departmental or professional adviser for assistance in planning their minor or dual major.

Curriculum for Bachelor of Arts Degree with a Major in Library Science
(Non-Teaching Degree)

The requirements for the Bachelor of Arts non-teaching degree are the same as those for the Bachelor of Science non-teaching degree with one exception. Students in the Bachelor of Arts program must complete six (6) to nine (9) semester hours in a foreign language. Those students who have completed two years of the same language in high school and who make satisfactory placement test scores may meet the language requirements by completing six (6) semester hours in the same language at the 200 level or above.

Curriculum for Bachelor of Science Degree with a Major in Library Science
(Professional Teaching Program-Elementary School Librarian/Teacher)

Students desiring certification as elementary-school librarians or media directors should complete the general, specialized (departmental), professional, and elective requirements listed below.

Freshman and Sophomore Years

	Hours
General Education Requirements	53

See requirements listed under General Core, College of Education and Psychology, page 75.

Junior and Senior Years

	Hours
Specialized (Departmental) Requirements	30
LS 301, 302, 303, 415, 416 or 491, 427 428 or 471, 462, 470, CIF 490	

Professional Requirements	Hours
For K-3 Certification	45
CIE 306, 309, 311, 403, 425, and 480; CIF 469	
EPY 370 and 374; CIE 330	
ARE 309	
MED 361	
MAT 210, 310	

	Hours
*For 4-8 Certification	39
CIE 306, 309, 312, 343, and 482; CIF 469	
EPY 370 and 374	
ARE 309	
MED 361	
MAT 210, 310	
Electives	6

	Hours
*For K-8 Certification	45
CIE 306, 309, 311 or 312, 403, 425 and 480 or 343 and 482; CIF 469	
EPY 370 and 374; CIE 330	
ARE 309	
MED 361	
MAT 210, 310	

*Students desiring 4-8 or K-8 certification must acquire two "areas of concentration." Persons completing specialized (departmental) requirements have earned a concentration in library science and must use elective hours for an additional concentration from those listed under Elementary Education, College of Education and Psychology, page 75.

Curriculum for Bachelor of Science Degree with a Major in Library Science
(School Librarian: K-12)

Students desiring certification as school librarians should complete the general, departmental, professional, and elective course requirements listed below.

Freshman and Sophomore Years

	Hours
General Requirements	53

See general requirements listed under General Core, College of Education and Psychology, page 75.

Junior and Senior Years

	Hours
Departmental Requirements	30

LS 302*, 303*, 415*, 416* or 491*, 301, 427, 462
463 or 471, and LS 470, CIF 490

*Common core of courses required for both the Mississippi Class A Permit and the Class A Certificate. To qualify for the Class A Certificate, the student must complete these courses and twelve (12) additional semester hours in library science to include LS 470. Library science majors must complete all departmental requirements.

	Hours
Professional Requirements	24

CIF 300 and 469; EPY 372 and 374; CIS 313 and 492

	Hours
Electives	24

Library science majors are advised to concentrate elective hours in one or more areas other than library science in order to qualify for Mississippi certification in these areas. Students should see their departmental or professional adviser for information concerning additional certification.

DEPARTMENT OF PSYCHOLOGY (PSY–175)

James D. Lowe, Jr., Chairman
H. N. Anderson, Dickson, Eno, Gates, L. K. Hildman, B. Holliman, Horn,
G. Jones, Koeppel, Layne, McDaniel, Mehearg, Musgrave,
O'Boyle, Ozerden, Presley, D. Sisemore, Welker

The Department of Psychology offers a full range of courses in either of two sequences: general-applied and pre-professional. It also functions as a service department in teacher education, and for other administrative divisions of the University which require psychology courses in their respective curricula. Graduate programs are described in the **Graduate Bulletin.**

Requirements for Major

A student majoring in psychology may work toward either a Bachelor of Arts or a Bachelor of Science degree. His program for either degree may be either the pre-professional or the general-applied sequence.

The requirements for the Bachelor of Arts and the Bachelor of Science are identical with one exception: students earning the Bachelor of Arts degree in psychology must complete six (6) to nine (9) hours in a foreign language. Students who have completed two years of the same language in high school and who make satisfactory placement test scores may meet the language requirement by completing six (6) semester hours in the same language at the 200 level or above.

The student's choice of program should be determined by his plans for the future and worked out in consultation with his faculty adviser. A major consists of twenty-four (24) hours of psychology in addition to PSY 110 and may include EPY courses.

General-Applied Psychology Major

This program is provided for the student interested in psychology and who plans to enter an occupation that does not require graduate professional training in psychology. Some career opportunities are available to bachelor's level students for the utilization of certain psychological principles and skills in mental health centers, social service agencies, hospitals, special schools, employment agencies, juvenile and family courts, etc., and as trainees in government, industrial, and merchandising fields. Students planning this major sequence may wish to develop a second area of concentration in sociology, or in early childhood education, recreational leadership, personnel management, or communications, etc. Opportunities are available for practical experience under supervision in some of these areas in the senior year.

Students aspiring to advanced professional training in psychology should follow the pre-professional sequence.

Teaching Psychology in High School

Students planning to teach psychology in high school should plan their entire course very carefully with their faculty adviser. They must meet State Department of Education certification requirements while minoring in secondary education. They should take the pre-professional psychology major sequence.

Pre-Professional Psychology Major

This major sequence is planned to provide the student with the background and skills essential for graduate professional training in psychology.

A. Curriculum—General and Professional Requirements

Any student majoring in psychology must satisfy all of the requirements in the General Core of the College of Education and Psychology found on page 75. Philosophy is recommended as one of the social sciences to meet core requirements for psychology majors.

Students who contemplate advanced graduate work are reminded that a reading knowledge of one foreign language is usually required. Study of German or French is recommended as a part of the under-graduate program for pre-professional psychology majors. Bachelor of Arts students will take one of these languages to meet general requirements.

B. Curriculum—Departmental Requirements

1. General and Specific Requirements.

The student wishing to major in psychology, regardless of his degree plan, must take twenty-four (24) hours in the Department of Psychology, in addition to PSY 110. Required of all majors are PSY 310, 320, 360, and 418.

The students taking the general-applied major will find, in addition to the required courses listed above, that PSY 231, 251, 375, 432, 450, 451, 462, 455, 436, and 492 deal with content and skills with some direct applications.

The student taking the pre-professional psychology major should, in addition to PSY 110, take PSY 310, 320, 360, and 418 as indicated above, and PSY 422, 455, or 436, and 426. The remaining hours for the major are elective within the department.

Courses designated EPY may be used toward a psychology major.

C. Curriculum—Minor and Electives—General and Professional

In addition to the General, Professional, and departmental requirements, the student must also complete the requirements for a minor, preferably in a related field. Courses not used to fulfill any of these requirements are free electives and may be taken in any department of the University.

Educational Psychology

The Department of Psychology offers certain courses which are required by the State Department of Education for teacher certification. These courses are all concerned with the contributions of psychology to the work of the teacher and are listed in the Course Description Section as **Educational Psychology.**

DEPARTMENT OF RESEARCH AND HUMAN DEVELOPMENT (RED–135) (CIF–125) (CIA--110)

L. C. Welker, Jr., Chairman
Berry, W. Cooley, Davidson, Dennis, Easterling, Ferguson,
Gunn, F. A. Karnes, Kazelskis, Knight, Lee, Leonard,
Olsen, W. Pierce, Price, L. L. Rogers, Shaffer, R. P. Thomas, Walt,
E. Walters, Weare, J. L. Young

The Department of Research and Human Development provides supportive services in teacher education. At the undergraduate level, these services include Educational Foundations, Educational Media, Student Teaching, and Adult Education. At the graduate level, these services include Educational Foundations, Educational Media, Adult Education, and Research Training.

DEPARTMENT OF SCIENCE EDUCATION (SCE–380)

Including Fundamentals of Science (FS–390)
Bobby N. Irby, Chairman
Bellipanni, F. Brown, I. Brown, Craven, Dale, Flowers,
Hurst, Matthews, Milkent, Sonnier

The Department of Science Education is operated jointly by the College of Science and Technology and the College of Education and Psychology. The facilities are in the College of Science and Technology. Programs in teacher education are in the College of Education and Psychology. Responsiblity for the curriculum is shared jointly. Graduate programs are described in the **Graduate Bulletin.**

OBJECTIVES

The objectives of the Department of Science Education are: (1) to provide those courses in both the physical and biological sciences which would give a minimum degree of scientific literacy to all students; (2) to provide, in cooperation with the Department of Curriculum and Instruction, a curriculum in the sciences and science methods for elementary school teachers; (3) to provide programs for those students planning to teach the sciences at the secondary school level; (4) to provide programs leading to advanced degrees in science education; and, (5) to work with public schools in the development of curricula, workshops, science fairs, and other activities designed to improve science instruction at all public schools levels.

CURRICULUM AND PROGRAMS

The Department of Science Education is primarily concerned with teachers and prospective teachers of science. Although some students will be planning to teach a specific science discipline, current public school organization encourages diversification of training in the sciences for prospective science teachers. Therefore, familiarity with principles and concepts common to all the scientific disciplines should be a prerequisite for teacher training programs in science education. Hence, programs in science education are so organized as to give teachers and prospective teachers a broad understanding of several sciences, with the opportunity for enough specialization in one area to pursue advanced study.

All prospective science teachers at the junior and senior high school levels are expected to complete introductory courses in the four basic science areas–biology, chemistry, geology, and physics. One year of college mathematics is also required. With few exceptions, the first mathematics course would deal with analytical geometry.

Specialization in the particular science, depending upon the area, requires from 23 to 29 semester hours credit in that area. Upon completion of the undergraduate program, the student would be certified to teach one or more specific sciences and general science. A general outline of the four-year program is given below:

Freshman

	Hours
ENG 101, 102, 333	9
MAT 101, 103, 171	9
CHE 101, 102, 103	9
PS 101	3
AA 100	3
HTH 101	3

Sophomore

BIO 101, 102, 202	12
ENG 200, 201, 202, or 401	3
HIS 101, 102	6
GHY 223 or 224	3
PHY 101, 102, 103	9

Junior

PSY 110	3
SOC 101	3
PA 111	3
GEO 101, 103	6
Begin prescribed (27 hours) professional education sequence	
Additional sciences (Note: biology specialists must complete organic chemistry.)	

Senior

Complete education sequence	(total) 27
CIS 456 (quarter preceding student teaching)	3
CIS 313, 486	12
Science Education 400-level course in specific science area	3
Complete required science courses and credits needed for graduation.	
Biology courses for specialization—BIO 101, 102, 202, 401, two electives; MIC 101 and GEN 402.	
Chemistry courses for specialization—CHE 101, 102, 103, 311, 312, 351, 352, 353.	
Earth Science courses (being interdisciplinary, courses are utilized from three departments) GLY 101, 103, 341; one GLY elective; AST 311, 312, 313; GHY 223, 224, and 425.	
Physics courses for specialization—PHY 101, 102, 103, 361, 362, three physics electives and MAT 276.	

The scope of the science education program and the fact that many courses run in sequence and are offered at particular times of the year necessitate careful and frequent advisement of students. It cannot be overemphasized that students should consult with their assigned adviser each quarter. Failure to do so will most often result in unnecessary delays and hardships in completing the program.

The above program provides a broad background and some depth in all science areas, gives the prospective teacher an opportunity for considerable depth and specialization in one science area, and requires the necessary background courses in professional education for effective teaching.

Students in the College of Science and Technology and in the College of Education and Psychology can major in science education and minor in secondary education. The program as outlined above for science teachers meets the certification requirements in all states in the areas of biology, chemistry, physics, earth science, general science, and physical science.

FUNDAMENTALS OF SCIENCE (FS–390)

Fundamentals of Science: Two courses in general physical science and two courses in general biological science of three semester hours credit each. These courses (the 100 series) consist of lecture demonstration sessions of 200 minutes and 210 minutes per week. These courses are designed to give the non-science major an acquaintance and understanding of certain fundamental principles of the major science disciplines.

Inasmuch as there is overlapping and duplication in these courses and those offered by various other science departments, the student should read carefully the limitations for each of the Fundamentals of Science courses. Any question should be answered by the student's adviser and/or the Department of Science Education prior to enrolling in these courses since they may be taken in any sequence the student chooses.

The FS 130 Series is designed for elementary education and special education majors. These courses are sequential and they should be taken in numerical order.

DEPARTMENT OF SPECIAL EDUCATION (SPE–190)

William V. Plue, Chairman
Brown, Gaar, Markwalder, Norsworthy

The University of Southern Mississippi prepares teachers to teach in several areas of exceptionality. Certificate programs, Grades K-12, are available in Mental Retardation, Learning Disabilities, Physically Handicapped, and Visually Handicapped.

Students who specialize in teaching exceptional children ordinarily major in special education with emphasis in their major area of interest. It is possible for students majoring in elementary education and others to take an area of concentration in special education and obtain an endorsement to teach in selected areas.

Students wishing to major in special education should follow the program outlined below. All prospective majors, or students electing a concentration field, are urged to consult with a member of the Department of Special Education in planning their programs.

General Requirements

SPE majors should follow the General Core for the the College of Education and Psychology. The Special Education Department will advise the student of options.

Professional Requirements

Programs will be scheduled individually with an adviser in the Special Education Department. In general, a minimum of six (6) semester hours will be taken in educational psychology and twelve (12) semester hours in curriculum and instruction. Courses required in special education are:

	Hours
SPE 200, 201, 202	3
SPE 300	3
SPE 400	3
SPE 401	3
SPE 402	3
SPE 403	3
SPE 411 or SHS 211	3
SPE 430	3
SPE 431	3
SPE 440	3
SPE 441	3
SPE 480, 482, 485 Student Teaching	9

Special education majors will be required to take additional course work leading to state certification as determined by the student's area interest. Requirements and electives are to be taken to make a total of sixty-six (66) semester hours beyond the general requirements.

NOTES

COLLEGE OF FINE ARTS

Raymond Mannoni, Dean
Vivian P. Wood, Assistant Dean

PURPOSE

The primary purpose of the College of Fine Arts is to provide its students with a well-rounded preparation for professional or teaching careers in one of the many branches of art, music, or theatre. In addition, it seeks to provide opportunities for students in all departments of the University to participate in artistic activities and develop an awareness of cultural values.

To achieve its purposes, the College of Fine Arts offers courses of study centered around a core of theoretical, historical, and other academic subjects, and designed to develop artistic ability and general cultural awareness.

ORGANIZATION

The College of Fine Arts is organized into six departments: Allied Arts, Art, Art Education, Music, Music Education, and Theatre Arts. Baccalaureate degrees are awarded in Fine Arts, Art, Music, and Music Education, with appropriate majors. Undergraduate minors are available in art history, dance, music, and theatre. An Allied Arts course, which is designed to introduce the arts in an integrated manner, is taught by teams of instructors drawn from each department of the College. This course fulfills the University's core requirements for fine arts.

Since curricular requirements vary for each major, students desiring degrees from the College of Fine Arts should follow the course sequences for each year outlined in detail under each department in the following pages.

Students majoring in elementary education who wish to emphasize areas in fine arts, please see "Areas of Concentration for Elementary Certification."

DEPARTMENT OF ALLIED ARTS (AA–665)

Walter Lok, Chairman
Mullican, Yestadt

The Department of Allied Arts is an arm of the College of Fine Arts designed to provide students with an overview of the nature of the arts, generally, and to examine, through a team of specialists, the structure of musical, plastic, and theatrical expressions.

DEPARTMENT OF ART (ART–660)

Jeff R. Bowman, Chairman
Bross, Meade, Merrifield, Ward

Curricula leading to the degree of Bachelor of Fine Arts are offered in drawing and painting, graphic communication (commercial art), and three dimensional design. A major is available in art leading to the degree of Bachelor of Arts. Minor programs are also available in various areas of art, including art history.

Exhibitions on tour and students' exhibitions are arranged and presented by the faculty and student committees. The department reserves the right to retain student work for exhibition purposes.

DRAWING AND PAINTING MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

ENG 100 or Elective	3		
ENG 101, 102		3	3
ART 131–Theory	3		
ART 111, 112, 113–Design I, II, III	3	3	3

ART 101, 102, 103—Drawing I, II, III	3	3	3
Mathematics		3	
ART 221—Technical Foundations for Painting			3
Physical Education or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

ART 201, 202, 203—Figure Drawing	3	3	3
ART 332, 333, 334, 335—History (select three)	3	3	3
ART 321, 322, 323—Painting	3	3	3
Humanities Core Electives	3	3	3
Electives	1	1	1
	13	13	13

Junior

ART 421, 422, 423—Painting	3	3	3
Social Science Core Electives	3	3	3
Science	3	3	
Art Electives	3	3	3
Electives	1	1	3
	13	13	12

Senior

ART 428—Painting Project	3
Electives	9

GRAPHIC COMMUNICATION MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

ENG 100 or Elective	3		
ENG 101, 102		3	3
ART 131—Theory	3		
ART 111, 112, 113—Design I, II, III	3	3	3
ART 101, 102, 103—Drawing I, II, III	3	3	3
Science			3
Physical Education or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

ART 332, 333, 334, 335—History (select three)	3	3	3
ART 341, 342, 343—Commercial Techniques	3	3	3
ART 201, 202—Figure Drawing	3	3	
Mathematics			3
Humanities Core Electives	3	3	3
Electives	1	1	1
	13	13	13

Junior

ART 441, 442, 443—Graphic Communication	3	3	3
Social Science Core Electives	3	3	3
ART 344—Illustration	3		
Electives	1	4	3
Art Electives	3	3	3
	13	13	12

Senior

ART 448—Graphic Communication Project	3
Electives	9
	12

THREE DIMENSIONAL DESIGN MAJOR

(Leading to the degree of Bachelor of Fine Arts)

ENG 100 or Elective	3		
ENG 101, 102		3	3
ART 111, 112, 113—Design I, II, III	3	3	3
ART 101, 102, 103—Drawing I, II, III	3	3	3
ART 131—Theory	3		
Science		3	3
Physical Education or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

ART 332, 333, 334, 335—History (select three)	3	3	3
ART 201, 202—Figure Drawing	3	3	
Mathematics			3
ART 351, 352—Three Dimensional Techinques	3	3	
ART 451—Three Dimensional Expression			3
Humanities Core Electives	3	3	3
Electives	1	1	1
	13	13	13

Junior

ART 452, 453, 454—Three Dimensional Expression	3	3	3
Social Science Core Electives	3	3	3
Art Electives	3	3	3
Electives	4	4	4
	13	13	12

Senior

ART 458— Three Dimensional Design Project	3
Electives	9
	12

ART MAJOR

(Leading to the degree of Bachelor of Arts)
(This program requires a minor and/or electives of 18 hours outside the area of Fine Arts)

Freshman

ENG 100 or Elective	3		
ENG 101, 102		3	3
ART 131—Theory	3		
Science		3	3
ART 111, 112, 113—Design I, II, III	3	3	3
ART 101, 102, 103 —Drawing I, II, III	3	3	3
Physical Education or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

Humanities Core Electives	3	3	3
Mathematics	3		
Minor and/or Electives	1	4	4
ART 332, 333, 334, 335—History (select three)	3	3	3
*Art Sequence I	3	3	3
	13	13	13

Junior

Social Science Core Electives	3	3	3
Foreign Language	3	3	3
*Art Sequence II	4	4	4
**Minor and/or Electives	3	3	3
	13	13	13

Senior

**Minor and/or Electives	12

* Nine (9) hours of art from a single area constitute a sequence.
** Minor and/or electives hours must total eighteen (18) from an approved subject field.

DEPARTMENT OF ART EDUCATION (ARE–665)

William H. Poirier, Chairman
Davis, Ryan, Slater

The courses in art education are designed to prepare students to meet the requirements for state certification and to give them a practical and theoretical understanding of the area of study. **The National Teacher Examinations are required of all candidates for the Art Education degree.**

Exhibitions on tour and students' exhibitions are arranged and presented by the faculty and students of the department.

TEACHER CERTIFICATION CURRICULUM

(Leading to the degree of Bachelor of Fine Arts)

Freshman

ART 101, 102, 102—Drawing I, II, III	3	3	3
ART 111, 112, 113—Design I, II, III	3	3	3
ART 131—Theoretical Foundations	3		
ENG 101, 102, and one of the following; ENG 200, 201, 202, or 401	3	3	3
HIS 101, 102—History		3	3
Physical Education or ROTC/AFROTC or approved substitute	1	1	1
	13	13	12

Sophomore

ARE 309—Elementary School Art	3		
ART 332, 333, 334— Art History	3	3	3
ENG 200, 201, 202, or 401—English	3		
EPY 374—Educational Psychology			3
PSY 110—Psychology		3	
FS 104, 105, 106—Fundamentals of Science	3	3	3
Mathematics Core Elective			3
Social Science		3	
	12	12	12

Junior

ARE 310—Public School Art		3	
ARE 412—Crafts I	3		
ARE 414—Crafts II			3
ARE 492—Art Education Project			3
ART 221— Technical Foundations for Painting		3	
ARE or ART—Elective			3
ART 351—Three Dimensional Techniques	3		
CIF 300—Foundations in Education	3		
CIF 469—Test and Measurements		3	
CIS 452—Methods in Art			3
FS 107—Fundamentals of Science		3	
EPY 372—Human Growth and Development	3		
	12	12	12

Senior

ARE and ART Electives	6	
CIS 313—Principles of Teaching		3
CIS 482—Student Teaching		9
HTH 101—Health	3	
PA 111—Public Address	3	
	12	12

MUSIC AND MUSIC EDUCATION

The University of Southern Mississippi is a fully accredited member of the National Association of Schools of Music. Requirements for entrance and for graduation are in accordance with the published regulations of this Association.

Entrance examinations in music theory are given all freshman music students. Transfer students are given validation examinations in their applied areas.

Students desiring to major in music can elect piano, organ, voice, violin, viola, violoncello, string bass, flute, oboe, clarinet, bassoon, horn, saxophone, baritone, trumpet, trombone, tuba, woodwinds, percussion, music history and literature, theory-composition, church music, jazz, or elementary, instrumental, keyboard, or vocal music education as a major. Any student of the University not registered for a music degree may pursue such courses in music as he wishes if he pays the required fees.

Music majors who have taken music courses under private instruction or in such way as not to receive credit may be excused from required courses in the music curriculum on the basis of test of proficiency.

Students electing to take applied lessons not required for specific degree programs are required to pay an additional fee. (See Table II Special Fees and Expenses on page 00 of this catalog.)

Every music major is required to participate in the same major organization for 11 or 12 quarters depending on the degree program. Departmental approval must be received if student wishes to change organizations. In addition, the student will be allowed to participate in one other ensemble. Permission for participation in more than two ensembles must be granted by the Dean of the College.

Music and music education students are required to attend a minimum of 12 recitals/concerts each academic year, in addition to a weekly Student Recital Hour.

The student who wishes to take a Bachelor of Arts or Bachelor of Science degree and minor in music may do so by taking the following distribution of courses:

	Hours
MUS 101, 102, 201, 202—Music Theory	12
MUS 131—Survey of Music Literature	3
MED 331, 332, 333—Conducting	3
APM 101, 102, 103, 201—Piano	4
APM 161, 162, or Voice Class, MED 301—Voice	2
Instrumental Electives	3
Music Electives	3
Total	30

DEPARTMENT OF MUSIC (MUS–675)

David Foltz, Chairman

Andersen, E. Compton, Delphin, Donohue, Gordon, A. Gower, Harney, Hays, R. Hill, Imbragulio, Johnston, Mannoni, Mullins, Munsell, Nowakowski, Presser, Ragsdale, Sanchez, Stocker, Straley, Waldoff, Wieman, V. Wood, Zaninelli

APPLIED MUSIC CURRICULA

These curricula provide instruction designed to prepare a student for a career as a professional musician or private teacher. Careful attention is given to the development of technique, interpretation, and musicianship. A broad knowledge of literature and musical styles is emphasized.

Candidates for the degree of Bachelor of Music in applied music must present recital selected from composers of the classic, romantic, and modern schools of composition in their junior and senior years.

CHURCH MUSIC MAJOR

(Leading to degree of Bachelor of Music)

The Curriculum in Church Music

The curriculum in church music, with either voice or organ as a major, is designed to provide a thorough and complete course of training for those who intend to pursue church music as a full-time profession. Special emphasis is placed on literature to be used in the church services. Students will not be enrolled for organ until satisfactory proficiency at the piano has been demonstrated.

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Humanities Elective	3	3	
MAT 101 or 120			3
Major Applied Music (Organ, Piano, or Voice)	1	1	1
Minor Applied Music (Organ, Piano, or Voice)	1	1	1
APM 183 Chorus	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History of Music	2	2	2
Religious Electives	3	3	
Science Elective			3
Major Applied Music (Organ, Piano, or Voice)	1	1	1
Minor Applied Music (Organ, Piano, or Voice)	1	1	1
APM 283 Chorus	1	1	1
	11	11	11

Junior

MUS 401 Instrumentation	3		
Social Science Elective		3	3
MUS 462 Hymnology		3	
MED 311 Elementary Music Methods	3		
MED 312 Secondary Music Methods		3	
MUS 459 Church Music Colloquium			3
MED 450 Vocal Pedagogy	2		
MED 331, 332, 333 Conducting	1	1	1
THE 341 Opera Workshop	1		
THE 459 Music Theatre Production			3
Major Applied Music (Organ, Piano, or Voice)	2	2	2
APM 383 Chorus	1	1	1
	13	13	13

Senior

MUS 321 or 322 Counterpoint	2	
MUS 351 History of Church Music	3	
Social Science Elective		3
Science Elective		3
MUS 448, 449 Choral Literature	2	2
MED 424 Instrument Repair, Topic I	3	
Major Applied Music (Organ, Piano, or Voice)	2	2
*APM 470 Recital		1
APM 483 Chorus	1	1
	13	12

*The recital requirement may be waived if the student takes an additional 3 hours of his applied area.

JAZZ MAJOR

(Leading to degree of Bachelor of Music)

The Curriculum in Jazz

The curriculum in jazz is intended to provide a thorough course of study which will prepare students to pursue jazz music on a professional level. The student majoring in jazz not only will receive special emphasis in his chosen field, but also will receive a strong foundation in theory and other academic subjects relevant to music and general education.

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Humanities Elective	3	3	
Science Elective			3
Applied Music Elective	1	1	1
APM 101, 102, 103 Piano	1	1	1
APM 184 Jazz Lab Band	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
Science Elective	3		
Social Science Elective		3	3
MUS 231, 232, 233 History of Music	2	2	2
APM 201 Piano	1		
Applied Music Elective	1	1	1
APM 284 Jazz Lab Band	1	1	1
MED 322 Woodwind Methods	1		
MED 323 Brass I Methods		1	
MED 427 Percussion Class			1
	12	11	11

Junior

MUS 401 Instrumentation	3		
MUS 375 Techniques in Scoring for Jazz Ensembles		2	
MUS 475 Advanced Techniques for Scoring for Jazz Ensembles			2
MAT 120 or 101	3		
MUS 360 Stylistic Developments in Jazz		3	
MUS 470 Organization and Management of Jazz Ensembles			3
MED 331, 332, 333 Conducting	1	1	1
Applied Music Elective	2	2	2
MUS 367 Improvisation	1		
MUS 467, 468 Advanced Improvisation		1	1
Minor Applied Instrument	1	1	1
Elective		1	1
APM 384 Jazz Lab Band	1	1	1
	12	12	12

Senior

MUS 476, 477 Advanced Techniques in Scoring for Jazz Ensembles	2	2
MUS 321, 322 Counterpoint	2	2
Music History or Music Literature Elective	3	
Applied Music Elective	2	2
Social Science Elective		3
APM 484 Jazz Lab Band	1	1
	10	10

MUSIC HISTORY AND LITERATURE MAJOR

(Leading to degree of Bachelor of Music)

The curriculum in music history and literature is planned for those who intend to teach on the college level or for those who desire careers in musical journalism, music publishing, or the recording industry–fields in which a wide and comprehensive knowledge of music history and literature is essential.

The major in music literature will receive a strong foundation not only in his chosen field but also in theory and in academic subjects which will enrich the student's cultural background.

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Social Science Elective	3	3	
MAT 120 or 101			3
Applied Music Elective	1	1	1
APM 101, 102, 103 Piano	1	1	1
APM 181, 182, or 183 Orchestra, Band or Chorus	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History of Music	2	2	2
MED 331, 332, 333 Conducting	1	1	1
Foreign Language	3	3	3
Applied Music Elective	1	1	1
APM 201 Piano	1		
APM 281, 282, or 283 Orchestra, Band or Chorus	1	1	1
	12	11	11

Junior

MUS 401 Instrumentation	3		
MUS 434 Ancient, Medieval, and Renaissance Music	3		
MUS 435 Baroque Music		3	
MUS 436 18th Century Music			3
MUS 433 20th Century Music			3
Science Elective	3	3	
Humanities Electives		3	3
Applied Music Elective	2	2	2
APM 381, 382, or 383 Orchestra, Band or Chorus	1	1	1
	12	12	12

Senior

Social Science Elective		3	
MUS 321 or 322 Counterpoint	2		
MUS 431 History of Opera	3		
MUS 437 19th Century Music	3		
MUS 351 History of Church Music		3	
Music Theory Elective		2	
Applied Music Elective	2	2	
APM 481, 482, or 483 Orchestra, Band or Chorus	1	1	
	11	11	

ORGAN MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Humanities Elective	3	3	
MAT 120 or 101			3
APM 101, 102, 103 Piano	1	1	1
APM 111, 112, 113 Organ	1	1	1
APM 181, 182, or 183	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History of Music	2	2	2
Foreign Language	3	3	3
APM 211, 212, 213 Organ	2	2	2
APM 201 Piano	1		
APM 281, 282, or 283	1	1	1
	12	11	11

Junior

MUS 321, 322 Counterpoint	2	2	
MUS 401 Instrumentation	3		
MED 331, 332, 333 Conducting	1	1	1
Science Electives		3	3
Social Science Electives	3	3	3
MUS 459 Church Music Colloquium			3
APM 311, 312, 313 Organ	2	2	2
APM 371, 372 Ensemble	1	1	
APM 370 Recital			0
APM 381, 382, or 383	1	1	1
	13	13	13

Senior

MUS 462 Hymnology		3
MED 424 Instrument Repair, Topic I	3	
MED 454, 455 Organ Pedagogy	2	2
MUS 444, 445 Organ Literature	2	2
MED 301, Voice Class	2	
APM 411, 412 Organ	2	2
APM 470 Recital		1
APM 481, 482, or 483	1	1
	12	11

PERCUSSION MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Humanities Elective		3	3
MAT 120 or 101	3		
APM 156, 157, 158 Percussion	1	1	1
APM 101, 102, 103 Piano	1	1	1
APM 181 or 182 Orchestra or Band	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History of Music	2	2	2
Social Science Elective	3	3	3
APM 256, 257, 258 Percussion	2	2	2
APM 201 Piano	1		
APM 281 or 282 Orchestra or Piano	1	1	1
	12	11	11

Junior

MUS 401 Instrumentation	3		
MUS 321, 322 Counterpoint		2	2
Theory Elective			2
MED 331, 332, 333 Conducting	1	1	1
Science Electives	3	3	
Elective			3
APM 371, 372, 373 Ensemble	1	1	1
APM 370 Recital		1	
APM 356, 357, 358 Percussion	2	2	2
APM 381 or 382 Orchestra or Band	1	1	1
	11	11	12

Senior

MUS 446, 447 Instrumental Literature	2	2
MED 458, 459 Wind Pedagogy	2	2
MED 301 Voice Class	2	
MED 321 String Methods		1
MED 322 Woodwind Methods		1
MED 323 Brass Methods		1
Elective	2	
APM 456, 457 Percussion	2	2
APM 471 Ensemble	1	
APM 470 Recital		1
APM 481 or 482 Orchestra or Band	1	1
	12	11

PIANO MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Humanities Elective	3	3	
MAT 120 or 101			3
APM 101, 102, 103 Piano	2	2	2
APM 183 Chorus	1	1	1
PED or ROTC/AFROTC	1	1	1
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History or Music	2	2	2
Science Elective	3	3	
Elective			3
APM 201, 202, 203 Piano	2	2	2
APM 283 Chorus	1	1	1
	11	11	11

Junior

MUS 401 Instrumentation	3		
Social Science Elective	3	3	3
MUS 322 Counterpoint		2	
MED 331, 332, 333 Conducting	1	1	1
Elective			3
APM 371, 372 Ensemble	1	1	
APM 301, 302, 303 Piano	2	2	2
APM 370 Recital			1
APM 375, 376, 377 Accompanying	1	1	1
APM 383 Chorus	1	1	1
	12	11	12

Senior

MUS 442, 443 Piano Literature	2	2
MED 452, 453 Piano Pedagogy	2	2
Elective	3	
MED 301 Voice Class	2	
APM 470 Recital		1
APM 401, 402 Piano	2	2
APM 475, 476 Accompanying	1	1
APM 483 Chorus	1	1
	13	9

STRING MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Humanities Elective	3	3	
MAT 120 or 101			3
Major String Instrument	1	1	1
APM 101, 102, 103 Piano	1	1	1
APM 181 Orchestra	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History of Music	2	2	2
Science Elective	3	3	
Elective			3
Major String Instrument	2	2	2
APM 201 Piano	1		
APM 281 Orchestra	1	1	1
	12	11	11

Junior

MUS 401 Instrumentation	3		
MUS 321, 322 Counterpoint		2	2
Theory Elective			2
MED 331, 332, 333 Conducting	1	1	1
Social Science Elective	3	3	3
Major String Instrument	2	2	2
APM 371, 372, 373 Ensemble	1	1	1
APM 370 Recital		1	
APM 381 Orchestra	1	1	1
	11	11	12

Senior

Elective	3	
MED 456, 457 String Pedagogy	2	2
MUS 451 Chamber Music Literature	3	
MED 301 Voice Class		2
MED 322 Woodwind Methods		1
MED 323 Brass Methods		1
MED 427 Percussion Class		1
APM 471, 472 Ensemble	1	1
APM 470 Recital		1
Major String Instrument	2	2
APM 481 Orchestra	1	1
	12	12

THEORY–COMPOSITION MAJOR

(Leading to degree of Bachelor of Music)

The Curriculum in Theory-Composition

This course is designed to prepare the student for teaching theory and composition, writing and arranging music of serious intent, and arranging and writing music of a commercial nature. Various steps in the preparation of music from the preliminary sketch to the published composition are included. The student will become familiar with the Musicwriter, Vari-Typer, diazo-printing, offset-printing, copyright law, and the sale, distribution and promotion of published music.

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Foreign Language	3	3	3
APM 101, 102, 103 Piano	1	1	1
Applied Music Elective	1	1	1
APM 191 Composition			1
APM 181, 182, or 183 Orchestra, Band or Chorus	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	13

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History of Music	2	2	2
MED 331, 332, 333 Conducting	1	1	1
MED 321 String Class	1		
MED 322 Woodwind Class		1	
MED 323 Brass Class			1
MED 427 Percussion Class	1		
Applied Music Elective	1	1	1
APM 201 Piano	1		
APM 291, 292, 293 Composition	1	1	1
APM 281, 282, 283 Orchestra, Band or Chorus	1	1	1
	12	10	10

Junior

MUS 401 Instrumentation	3		
Science Elective		3	3
MUS 321, 322 Counterpoint	2	2	
Music Theory Elective			2
Social Science Elective	3	3	
MAT 120 or 101			3
Applied Music Elective	2	2	2
APM 391, 392, 393 Composition	1	1	1
APM 381, 382 or 383 Orchestra, Band or Chorus	1	1	1
	12	12	12

Senior

Music History Electives	3	3	
Humanities Electives	3	3	
Applied Music Electives	2	2	
APM 491, 492 Composition	1	1	
Social Science Elective		3	
APM 481, 482 or 483 Orchestra, Band or Chorus	1	1	
	10	13	

VOICE MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
MAT 120 or 101			3
Humanities Elective	3	3	
APM 161, 162, 163 Voice	1	1	1
APM 101, 102, 103 Piano	1	1	1
APM 183 Chorus	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History of Music	2	2	2
THE 342, 343 Opera Workshop		1	1
Foreign Language	3	3	3
APM 261, 262, 263 Voice	2	2	2
APM 201 Piano	1		
APM 283 Chorus	1	1	1
	12	12	12

Junior

MUS 401 Instrumentation	3		
MUS 321 or 322 Counterpoint		2	
MUS 459 Music Theatre Production			3
THE 343, 447 Opera Workshop	1	1	
MED 331, 332, 333 Conducting	1	1	1
Science Elective	3	3	
Social Science Elective			3
MUS 241 Diction		3	
APM 361, 362, 363 Voice	2	2	2
APM 341 Recital		1	
APM 383 Chorus	1	1	1
	11	14	10

Senior

MUS 440, 441 Vocal Literature	2	2
MED 450, 451 Vocal Pedagogy	2	2
Theory Elective	2	
THE 448, 449 Opera Workshop	1	1
Social Science Electives	3	3
APM 461, 462 Voice	2	2
APM 470 Recital		1
APM 483 Chorus	1	1
	13	12

WIND MAJOR

(Leading to degree of Bachelor of Music)

Freshman

MUS 101, 102 Music Theory	3	3	
MUS 101, 102 Theory Lab	0	0	
MUS 201 Advanced Music Theory			3
MUS 201 Advanced Theory Lab			0
ENG 101, 102 English	3	3	
MUS 131 Survey of Music Literature			3
Humanities Elective		3	3
MAT 120 or 101	3		
Major Wind Instrument	1	1	1
APM 101, 102, 103 Piano	1	1	1
APM 181 or 182 Orchestra or Band	1	1	1
PED or ROTC/AFROTC	1	1	
	13	13	12

Sophomore

MUS 202 Advanced Music Theory	3		
MUS 202 Advanced Theory Lab	0		
MUS 301 20th Century Harmony		3	
MUS 302 Form and Analysis			3
MUS 231, 232, 233 History of Music	2	2	2
Social Science Elective	3	3	3
Major Wind Instrument	2	2	2
APM 201 Piano	1		
APM 281 or 282 Orchestra or Band	1	1	1
	12	11	11

Junior

MUS 401 Instrumentation	3		
MUS 321, 322 Counterpoint		2	2
Theory Elective			2
MED 331, 332, 333 Conducting	1	1	1
Science Elective	3	3	
Elective			3
Major Wind Instrument	2	2	2
APM 371, 372, 373 Ensemble	1	1	1
APM 370 Recital		1	
APM 381 or 382 Orchestra or Band	1	1	1
	11	11	12

Senior

MED 458, 459 Wind Pedagogy	2	2
MUS 446, 447 Instrumental Literature	2	2
MED 301 Voice Class	2	
MED 321 String Methods		1
MED 322 Woodwind Methods		1
MED 323 Brass Methods		1
Elective	3	
Major Wind Instrument	2	2
APM 471 Ensemble	1	
APM 470 Recital		1
APM 481 or 482 Orchestra or Band	1	1
	13	11

DEPARTMENT OF MUSIC EDUCATION (MED–680)

A. Norbert Carnovale, Chairman

Behm, Bruckner, Cox, K. Crews, Dennis, Donovan, Gay, W. Gower, Guilbeau, Hong, Jerome, Lebsack, Love, MacMorran, Moreland, Osadchuk, Pound, R. Prenshaw, Tuley, Weed

The training and role of a music educator in the nineteen-seventies are indeed complex. The faculty of the Department of Music Education considers individual solo performance, performance in chamber ensembles, and performance in larger organizations important facets in the training of a well-rounded musician-educator. Emphasis on music performance does not imply de-emphasis on acquisition of sound pedagogy as well as a well-rounded general education. The curricula listed below are designed to provide a good balance between music performance, pedagogy, and general education. These curricula are fully certified by the NASM, NCATE, SASC, and they satisfy teacher certification requirements.

Certain forms and one major examination are required for completion of all degrees in Music Education. A timetable for the students' completion of these forms is given below.

1. At the beginning of the junior year, the **Program Plan-Teaching** Form is to be completed (see p. 76 of this **Bulletin** for specific instructions).
2. Two quarters in advance of the student teaching quarter, the **Application for Student Teaching** is due (see p. 77 of this **Bulletin** for specific instructions). Students should contact the Music Education supervisor of student teachers at the beginning of their junior year regarding practice teaching assignments.
3. At least three quarters before degree requirements are completed, the **Application for Degree** must be filed (see p. 55 of this **Bulletin** for specific instructions).
4. During the senior year, prior to graduation, the **National Teacher Examination** (NTE) must be taken.

Guidelines for completing the above-mentioned forms and examinations may be obtained at the chairman's office. All students should also consult with the Coordinator of Undergraduates Studies concerning curriculum problems.

MUSIC EDUCATION MAJOR

Elementary

(Leading to degree of Bachelor of Music Education)

Freshman

MUS 101, 102–Music Theory	3	3	
MUS 201–Advanced Music Theory			3
ENG 101, 102–English	3	3	
ENG 200, 201, or 202–English Elective			3

HIS 101, 102, or 140, 141—History	3	3	
MUS 131—Survey of Music Literature			3
Physical Education or ROTC/AFROTC	1	1	
APM 101, 102, 103—Piano	1	1	1
Voice or Instrument	1	1	1
APM 181, 182, or 183—Orchestra, Band, or Chorus	1	1	1
	13	13	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
ENG 200, 201, or 202—English Elective	3		
FS 104 and 105—Physical Science I and II	3	3	
FS 106—Biological Science I			3
Mathematics Core Elective		3	
PSY 110—Psychology			3
**APM 201, 202, 203—Piano	1	1	1
Voice or Instrument	1	1	1
APM 281, 282, 283—Orchestra, Band, or Chorus	1	1	1
	14	14	14

Junior

MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MED 440—Music Education in the Elementary Schools			3
MED 411—Choral Methods and Curriculum Problems			3
MED 331, 332, 333—Conducting	1	1	1
MED 321—String Methods	1		1
MED 322—Woodwind Methods		1	
MED 323—Brass Methods			1
MED 450—Vocal Pedagogy		2	
FS 107—Biological Science II	3		
THE 341—Opera Workshop			1
**APM 301, 302—Piano	1	1	
Voice or Instrument	2	2	2
APM 381, 382, 383—Orchestra, Band, or Chorus	1	1	1
	12	11	12

** The last four (4) hours of piano for the elementary music education major will be concerned primarily with a functional approach to keyboard study.

Senior

EPY 374—Educational Psychology	3		
EPY 370 or 372—Psychology of Human Growth and Development		3	
HTH 101—Health	3		
PA 111—Public Address	3		
PS 101—Political Science		3	
THE 459—Music Theatre Production		3	
Voice or Instrument	2		
MUS 456—Choral Arranging		2	
APM 481, 482, 483—Orchestra, Band, or Chorus	1	1	
CIS 313—Principles of Teaching in High School			3
CIS 493—Student Teaching			9
	12	12	12

MUSIC EDUCATION MAJOR

Instrumental

(Leading to degree of Bachelor of Music Education)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
ENG 200, 201, or 202—English Elective			3
HIS 101, 102, or 140, 141	3	3	
MUS 131—Survey of Music Literature			3
Physical Education or ROTC/AFROTC	1	1	
Major Instrument	1	1	1
APM 101, 102, 103—Piano	1	1	1
APM 181 or 182—Orchestra or Band	1	1	1
	13	13	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
ENG 200, 201, or 202—English Elective	3		
FS 104, 105—Physical Science I and II	3	3	
FS 106—Biological Science I			3
Mathematics Core Elective		3	
PSY 110—Psychology			3
MED 221, 222—String Class		1	1
APM 201—Piano	1		
Major Instrument	1	1	1
APM 281 or 282—Orchestra or Band	1	1	1
	14	14	14

Junior

MUS 401—Instrumentation	3		
MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MED 412—Instrumental Methods and Curriculum Problems			3
MED 331, 332, 333—Conducting	1	1	1
MED 421, 422—Woodwind Class		1	1
FS 107—Biological Science	3		
MED 301—Voice Class		2	
EPY 374—Educational Psychology			3
Major Instrument	2	2	2
Minor Instrument	1	1	1
APM 381 or 382—Orchestra or Band	1	1	1
	14	11	12

Senior

HTH 101—Health	3		
PA 111—Public Address	3		
PS 101—Political Science		3	
EPY 370 or 372—Psychology of Human Growth and Development		3	
MED 425, 426—Brass Class	1	1	
MED 427*, 428—Percussion Class	1	1	

Major Instrument	2	2	
APM 481 or 482—Orchestra or Band	1	1	
CIS 313—Principles of Teaching in High School			3
CIS 493—Student Teaching			9
	11	11	12

* Percussion majors may substitute a brass, string, or woodwind minor instrument for Percussion Class MED 427.

MUSIC EDUCATION MAJOR

Keyboard (Piano-Organ)

(Leading to degree of Bachelor of Music Education)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
ENG 200, 201, or 202—English Elective			3
HIS 101, 102, or 140, 141—History	3	3	
MUS 131—Survey of Music Literature			3
APM 101, 102, 103—Piano	1	1	2
APM 161, 162, 163—Voice	1	1	1
APM 183—Chorus	1	1	1
	12	12	13

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
ENG 200, 201, or 202—English Elective	3		
MAT—Mathematics Elective		3	
THE 343—Opera Workshop			1
Physical Education or ROTC/AFROTC	1	1	
PSY 110—Psychology			3
APM 201, 202, 203—Piano	2	2	2
APM 261, 262, 263—Voice	1	1	1
APM 283—Chorus	1	1	1
	13	13	13

Junior

MUS 401—Instrumentation	3		
MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MED 411—Choral Methods and Curriculum Problems			3
MED 331, 332, 333—Conducting	1	1	1
FS 104, 105—Physical Science I and II		3	3
HTH 101—Health	3		
PA 111—Public Address		3	
PS 101—Political Science			3
APM 301, 302, 303—Piano	2	2	2
APM 361, 362—Voice	1	1	
APM 383—Chorus	1	1	1
	14	14	13

Senior

EPY 374—Educational Psychology	3		
EPY 370 or 372—Psychology of Human Growth and Development		3	
FS 106—Biological Science I	3		
FS 107—Biological Science II		3	
MED 321—String Methods	1		
MED 322—Woodwind Methods		1	
MED 323—Brass Methods		1	
THE 459—Music Theatre Production	3		
APM 401, 402—Piano	2	2	
APM 483—Chorus	1	1	
CIS 313—Principles of Teaching in High School			3
CIS 493—Student Teaching			9
	13	11	12

MUSIC EDUCATION MAJOR
VOICE

(Leading to degree of Bachelor of Music Education)

Freshman

MUS 101, 102—Music Theory	3	3	
MUS 201—Advanced Music Theory			3
ENG 101, 102—English	3	3	
ENG 200, 201, or 202—English Elective			3
HIS 101, 102, or 140, 141	3	3	
MUS 131—Survey of Music Literature			3
Physical Education or ROTC/AFROTC	1	1	
APM 101, 102, 103—Piano	1	1	1
APM 161, 162, 163—Voice	1	1	1
APM 183—Chorus	1	1	1
	13	13	12

Sophomore

MUS 202—Advanced Music Theory	3		
MUS 301—20th Century Harmony		3	
MUS 302—Form and Analysis			3
MUS 231, 232, 233—History of Music	2	2	2
ENG 200, 201, or 202—English Elective	3		
FS 104 and 105—Physical Science I and II	3	3	
FS 106—Biological Science I			3
Mathematics Core Elective		3	
PSY 110—Psychology			3
APM 201, 202, 203—Piano	1	1	1
APM 261, 262, 263—Voice	1	1	1
APM 283—Chorus	1	1	1
	14	14	14

Junior

MUS 401—Instrumentation	3		
MED 311—Elementary Music Methods	3		
MED 312—Secondary Music Methods		3	
MED 411—Choral Methods and Curriculum Problems			3
MED 331, 332, 333—Conducting	1	1	1

MED 321—String Methods	1		
MED 322—Woodwind Methods		1	
MED 323—Brass Methods			1
MED 450—Vocal Pedagogy		2	
FS 107—Biological Science II			3
THE 343—Opera Workshop			1
APM 301, 302—Piano	1	1	
APM 361, 362, 363—Voice	2	2	2
APM 383—Chorus	1	1	1
	12	11	12

Senior

EPY 374—Educational Psychology	3		
EPY 370 or 372—Psychology of Human Growth and Development		3	
HTH 101—Health	3		
PA 111—Public Address	3		
PS 101—Political Science		3	
THE 459—Music Theatre Production		3	
APM 461, 462—Voice	2	2	
APM 483—Chorus	1	1	
CIS 313—Principles of Teaching in High School			3
CIS 493—Student Teaching			9
	12	12	12

DEPARTMENT OF THEATRE ARTS (THE—685)

I. Blaine Quarnstrom, Chairman

Amacker, G. Crook, Faust, Hartwig, R. B. Hill, Mullican

Students choosing to major in theatre or dance should follow the appropriate curriculum outline.

A student seeking the Bachelor of Fine Arts degree in theatre should choose electives (with the help of his adviser), from art, music, dance, and dramatic literature. It is recommended that students whose interests lie in theatre design register for at least one class in general drawing and, in addition, ART 111, 112, 113.

The Bachelor of Fine Arts Teacher Certification Program is designed for students who wish to teach at the secondary school level. These students will choose their electives from English and Public Address. The department will assist the student in planning his courses.

A minor program is available in theatre. The department will cooperate with the student's major professor in planning the appropriate courses.

For information concerning Master of Arts and Master of Fine Arts degrees consult the **Graduate Bulletin.**

THEATRE MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

ENG 101, 102	3	3	
Humanities and Fine Arts Core Electives		3	3
THE 103—Introduction to Theatre	3		
THE 104—Introduction to Costume	3		
THE 111—Fundamentals of Oral Interpretation		3	
THE 120—Fundamentals of Acting			3
THE 100, 101, 102—University Theatre	1	1	1

THE 125—Movement for the Actor			2
Public Address 210	3		
Mathematics			3
Physical Education or ROTC/AFROTC		1	1
Elective		2	
	13	13	13

Sophomore

Science Electives	3	3	
Social Science Core Electives	3		3
THE 200—Stagecraft	3		
THE 306—Scene Design		3	
THE 204—Makeup			2
THE 220, 221, 222—University Theatre	1	1	1
Theatre Electives		2	2
Electives	3	3	5
	13	12	13

Junior

Social Science Core Elective	3		
THE 320—Directing	3		
THE 301—Reader's Theatre			3
THE 427, 428, 429—Theatre History	3	3	3
THE 330, 451, 452—University Theatre	1	1	1
Theatre Electives		8	3
Electives	3	1	3
	13	13	13

Senior

THE 412—Stage Lighting	3
THE 450—University Theatre	1
Theatre Electives	5
Electives	3
	12

TEACHER CERTIFICATION MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

ENG 101, 102	3	3	
HIS 101, 102, or 140, 141		3	3
PS 101			3
THE 103—Introduction to Theatre	3		
THE 111—Fundamentals of Oral Interpretation		3	
THE 120—Fundamentals of Acting			3
THE 100, 101, 102—University Theatre	1	1	1
THE 104—Introduction to Costume	3		
Physical Education or ROTC/AFROTC	1	1	
Fundamentals of Science 104, 105		3	3
	11	14	13

Sophomore

Mathematics			3
AA 100	3		
ENG 200, 201, 203 (any two)	3	3	
PSY 110		3	
FS 106, 107	3	3	
HTH 101			3
PA 111			3
THE 200—Stagecraft	3		
THE 220, 221, 222—University Theatre	1	1	1
PA 210		3	
Elective (English* or Speech)			3
	13	13	13

Junior

CIF 300—Foundations of Education	3		
EPY 374—Educational Psychology		3	
EPY 372—Human Growth and Development		3	
THE 204—Makeup			2
THE 301—Reader's Theatre			3
THE 320—Directing	3		
THE 330, 331, 332—University Theatre	1	1	1
THE 427, 428, 429—Theatre History	3	3	3
Theatre Electives		3	
Electives (English* or Speech)	3		3
	13	13	12

Senior

CIF 469—Test and Measurement	3		
CIS 313—Principles of Teaching		3	
CIS 484 or 489—Student Teaching			9
CIS 454 or 459—Methods of Teaching	3		
THE 412—Stage Lighting	3		
THE 450, 451—University Theatre	1	1	
Electives (English* or Speech)	3	6	
	13	10	9

* **REQUIRED:** Public Address 111 plus 27 hours of English including one course from each of the following: American literature, English literature, Shakespeare, advanced grammar.

DANCE MAJOR

(Leading to the degree of Bachelor of Fine Arts)

Freshman

ENG 101, 102		3	3
THE 152—Modern Dance Technique and Composition	3	3	3
THE 252—Ballet Technique	3	3	3
HIS 101, 102		3	3
Social Science	3		
THE 104—Introduction to Costume	3		
	12	12	12

Sophomore

Social Science Elective			3
THE 111		3	
THE 258—Modern Dance Technique and Survey	3	3	3
THE 259—Intermediate Dance Composition	3		
THE 204—Stage Makeup		2	
THE 356, 357—Dance History		3	3
THE 253—Dance Improvisation	2		
THE 440—Ballet Technique	3	3	3
BIO 220	3		
THE 465—Music Resources for Dance			2
	14	14	14

Junior

Mathematics	3		
THE 200—Stagecraft			3
THE 358—Dance Technique and Theory	3	3	3
THE 359—Advanced Dance Composition	3		
BIO 221		3	
Physical Education 301			3
THE 370—Methods of Teaching Dance		3	
THE 466—Methods of Dance Lecture and Demonstration		3	
THE 470—Senior Dance Project			3
THE 468—Musical Theatre Dance	2		
THE 350—Tap or 351 Jazz		2	
	11	14	12

Senior

THE 412—Stage Lighting	3		
THE History or Art History		3	
THE 458—Dance Technique and Analysis	3	3	
THE 120—Fundamentals of Acting	3		
MUS 365	3		
THE 467—Dance Curriculum and Organization—Methods		3	
Social Science Elective		3	
	12	12	

NOTES

SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

Walter E. Cooper, Dean

PURPOSE

The primary purpose of the School of Health, Physical Education, and Recreation is to educate future leaders in the fields of athletic administration and coaching, health, physical education, and recreation. Also of equal importance is the coordination of the physical education activity course program which services the entire University and a comprehensive recreational services program which includes all intramural activities, extramural sports clubs, and the recreational equipment loan service.

ORGANIZATION

The Dean's Office in the School is the major administrative component. This office includes the Dean, Graduate Coordinator, and an undergraduate coordinator-assistant. There are four departments: Athletic Administration and Coaching; Health; Physical Education; and Recreation.

Each department has a chairman and the various programs and/or projects within departments have coordinators or directors.

These departments offer the Bachelor of Science degree in the respective majors and coordinate teaching certification through the College of Education and Psychology. Career non-teaching programs are also available within each department.

Consult the **Graduate Bulletin** for graduate program information.

REQUIREMENTS

Any student who satisfies admission requirements to the University through the Office of Admissions is eligible for admission to the School of Health, Physical Education, and Recreation. Admission to the School, however, does not constitute admission to a major program. Major program admission is completed when a completed program plan is on file in the Dean's Office, School of Health, Physical Education, and Recreation.

School of HPER General Core Curriculum

The following School of HPER Core satisfies the requirements of the University General Core Curriculum and is required of all students majoring within the School.

	Hours
ENG 101, 102 and two other English courses 200 level or above	12
HIS 101 and 102, or 140 and 141	6
Social Sciences	6
Elect two courses from the following for 6 hours: anthropology, economics, geography, political science, and sociology.	
Science	12
Biological Science—6 hours	
Physical Science—6 hours	
(The Fundamentals of Science series satisfies this requirement)	
Mathematics	3
PSY 110	3
Humanities and Fine Arts	3
Elect one course from the following for 3 hours: literature, fine arts*, religion, foreign language, philosophy.	
PA 111	3
HTH 101, 311	6
Physical Education (activity)**	3
	57

* Students seeking teaching certification are required to take this elective in the fine arts area.
** The physical education activity requirement may be satisfied by successfully completing the following options: ROTC/AFROTC I, varsity athletics, Marching Band, Dixie Darlings, cheerleaders, or Pom-Pon Girls.

Departments also have additional specific course requirements which must be completed. In order to qualify for a degree within the School of Health, Physical Education, and Recreation, students must complete all requirements in the program of their choice as specified in this catalog and outlined in their approved program plan.

Teaching Certification

Students desiring teaching certification must also file a program plan with the College of Education and Psychology.

Academic Suspensions

Students must maintain the academic standards, as stipulated in the Academic Requirements section of this **Bulletin,** to assure readmission quarterly. Academic suspension requires the dean's approval prior to readmission.

Waiver or Substitution of Major Requirements

Any waiver or substitution of major requirements must be approved by the appropriate department chairman and the Dean of the School.

DEPARTMENT OF ATHLETIC ADMINISTRATION AND COACHING (AAC-710)

M. C. Johnson, Chairman
M. Bell, J. R. Carpenter, Gallaspy, R. Grantham, Gray,
E. L. Harrington, Ladner, C. J. Taylor

The Department of Athletic Administration and Coaching offers a Bachelor of Science Professional degree (teaching and coaching); a Bachelor of Science Professional degree (non-teaching); a minor program; and specialization programs in aquatics, athletic training, minor sports, and officiating competitive athletics.

The objectives of the Department of Athletic Administration and Coaching are as follows:

1. To prepare athletic administrators and coaches for careers in the total educational environment.
2. To prepare students majoring in athletic administration and coaching for non-teaching careers.
3. To provide a minor in athletic administration and coaching for students majoring in other academic disciplines.
4. To provide each student the opportunity to specialize for certification in the areas of aquatics, athletic training, minor sports, and officiating competitive sports.

PROFESSIONAL DEGREE (TEACHING AND COACHING)

The purpose of this program is to provide professional training for teachers who will administer and coach athletics in addition to their teaching responsibilities. Teaching certification will be in the area selected by each student in conference with his adviser. The program requires a total of thirty (30) semester hours in athletic administration and coaching. Students must also complete their professional requirements for secondary education, the general education requirements for secondary teachers, and the secondary teacher's certification program. For details concerning professional requirements for secondary teachers, consult the College of Education and Psychology section in the catalog.

Required courses: AAC 303, 370, 410; elect six (6) hours from AAC 300, 400, or 401.

Four (4) hours taken from the following courses may be used to satisfy partially the thirty (30) semester hour athletic administration and coaching requirements for the professional (teaching and coaching) degree.

AAC: 210, 211, 212, 213, 214, and 215.

Electives: Select from the Department of Athletic Administration and Coaching courses to complete thirty (30) semester hours.

PROFESSIONAL DEGREE (NON-TEACHING)

The purpose of this program is to provide professional training for students desiring careers in non-teaching areas. Those students pursuing the Bachelor of Science Professional (non-teaching) degree shall not be required to take the professional teacher education requirements. These additional hours should be used further to enhance competencies in the students' chosen careers. The program requires thirty (30) semester hours in athletic administration and coaching.

Required courses: ACC 303, 370, 410; elect six (6) hours from AAC 300, 400, or 401.

Electives: Select from athletic administration and coaching courses to complete thirty (30) semester hours.

Four (4) hours taken from the following courses may be used to satisfy partially the thirty (30) semester hour athletic administration and coaching requirements for thr professional (teaching and coaching) and professional (non-teaching) degrees.

AAC: 210, 211, 212, 213, 214, and 215.

Electives may be selected in order to complete a total of 128 semester hours.

MINOR PROGRAM

The purpose of this program is to provide professional training for those students majoring in other academic disciplines. The program requires a total of eighteen (18) semester hours in athletic administration and coaching.

Required courses: AAC 303, 401, 410; elect three (3) hours from AAC 300, 370, or 400.

Electives: Select from athletic administration and coaching courses to complete eighteen (18) hours.

SPECIALIZATION AREAS

In addition to the professional degree (teaching and coaching), the professional degree (non-teaching), and the minor program offered by the Department of Athletic Administration and Coaching, specialization areas are available to each student enrolled in the University. The areas of specialization are as follows:

Aquatics

The purpose of this program is to prepare students to meet American National Red Cross Water Safety Certification Requirements and the requirements as prescribed by the University of Southern Mississippi for certification in aquatic administration.

1. The Life Saving: Rescue and Water Safety Certificate. Required course: AAC 362.
2. The Water Safety Instructors (WSI) Certificate. Required course: AAC 362 (prerequisite) and 460.
3. The Aquatic Administration Certificate. Required courses: AAC 360, 361, 362, and 460.

Athletic Training

The purpose of this program is to prepare students to meet certification requirements of the National Athletic Trainers Association.

Required courses: AAC 370, 371, 373, 471, 472, and 410, FN 360, HTH 101, 311, and 315, PED 301 and 402, and PSY 110.

Minor Sports

The purpose of this program is to provide professional training for coaching in minor sports.

Required courses: AAC 340, 341, 424; elect two (2) hours from AAC 322 or 323.

Officiating

The purpose of this program is to provide professional training in officiating competitive athletics.

Required courses: AAC 240, 420, and 425.

ACTIVITY COURSES

The following courses may be taken to satisfy the University core physical education activity requirement.

AAC: 210, 211, 212, 213, 214, 215, 362, and 460.

DEPARTMENT OF HEALTH (HTH–715)

Wilbur L. Carr, Chairman
Barnes, M. A. Brown, K. Carlson,
Switzer, Webb, Yarrow

The Department of Health provides four educational programs. These programs are designed to meet the following objectives:

1. To provide specialized training in health education.
2. To train health and physical education teachers for secondary schools.
3. To provide specialized training for certification in safety and driver education.
4. To provide specialized training for certification in general and instructor's first aid.

HTH PROGRAM 1–**A Major Program for the Bachelor of Science Degree in Health Education.**

The purpose of this program is to prepare students for health education positions in schools, agencies, and governmental programs.

The program requires a minimum total of forty-two (42) semester hours. Individualized programs are planned with advisers relative to specific career plans. Students interested in teaching must complete general education and professional education requirements in secondary education.

Courses required include:
HTH 210, 315, 321, 341, 411, 420, 421, and 430
Electives may be selected in order to complete a program of 128 hours.

HTH PROGRAM 2–**A Major Program for the Bachelor of Science Professional Degree in Health and Physical Education with an Emphasis in Health.**

The purpose of this program is to prepare students to teach health and physical education in secondary schools.

The program requires a minimum total of forty-two (42) semester hours in the major field areas: twenty-seven (27) hours in health courses, and fifteen (15) hours in physical education courses. Students must also successfully complete the general education and professional requirements in secondary education. For details concerning professional requirements for secondary teachers consult the College of Education and Psychology section of this catalog.

Courses required by the Department of Health are listed below.
HTH: 210, 315, 321, or 421, 341, 411, 412, 415, 420, 430
PED: 220, 323 or 324, 401, 402, 420
Electives may be selected in order to complete a total of 128 hours.

HTH PROGRAM 3–**A Certification Program in Safety and Driver Education**

The purpose of this program is to train students to teach safety and driver education courses in secondary schools. Professional certification for secondary schools can be obtained by completing the following courses.

HTH: 341, 440, 443, and three semester hours from HTH 311, 370, 441, 442, 444, CJ 200, 305, or AAC 370

HTH PROGRAM 4–**Certification Programs in First Aid**

The purpose of these programs is to train students to meet American Red Cross certification requirements.

PROGRAM 4A-HTH 310—**First Aid Certificate.**

Issued by the University of Southern Mississippi for the American Red Cross upon successful completion of the standard first aid course.

PROGRAM 4B-HTH 311—**First Aid and Instructor's Certificate.**

Issued by the University of Southern Mississippi for the American Red Cross on completion of requirements for the standard first aid certificate and the advanced and instructor first aid course.

DEPARTMENT OF PHYSICAL EDUCATION (PED –730)

J. William Larson, Chairman
Albertson, Babin, K. Bell, Cracraft, Estes, Marciani, Milam,
Slay, Townley

The Department of Physical Education administers four educational programs designed to meet the following objectives:

1. To prepare physical educators for careers of their choice other than teaching.
2. To prepare physical educators for careers as elementary specialists, secondary specialists, or as corrective therapists.
3. To provide opportunities for the entire University community to develop skills for leisure time usage.
4. To provide opportunities for students, faculty, and staff to participate in a program of intramurals/extramurals on a competitive basis.

PED PROGRAM 1—**A Bachelor of Science Degree in Professional Physical Education**

This program is designed to train physical educators in careers which do not require teacher certification. In addition to completing successfully the School's Core requirement, there are twenty-seven (27) semester hours required in the major fields area: twenty-four (24) in physical education, and three (3) in health.

Specialization requirements are: PED 146, 147, 148, 301, 303, 314, 326, 350, 402, 404

HTH 315,

With the aid of your adviser other concentrations, such as aquatics, driver's education, team-sports, corrective therapy, special education, recreation, etc., or isolated courses may be elected to complete 128 hours.

PED PROGRAM 2—**A Bachelor of Science Degree in Professional Physical Education with Teacher Certification**

The purpose of this program is to train future physical educators for the public schools. In addition to the specialized emphasis listed below, the student must successfully complete the School of HPER General Educational requirements and the professional requirements in secondary education. For details concerning the professional education requirements for teachers, consult the College of Education and Psychology section of this catalog.

Specialization requirements are:

Common requirements: PED 146, 147, 148, 301, 303, 350, 402, 420

HTH 315, plus 6 hours electives

Emphases: (select one)

A. Elementary: PED 284, 320, 321, plus 3 hours physical education electives chosen from 284, 320, 321
B. Secondary: PED 314, 323, 326, plus 3 hours physical education electives
C. Corrective Therapy: PED 314, 326, 401, plus 3 hours from PED 284, 320, 321, or 323

Psychology: Elect 9 hours from 231, 436, 450, 455.

Upon completion of the on-campus requirements, two quarters of work are required at the Veteran's Administration Center, in Biloxi, Mississippi. With the successful

completion of the National CTA examination, the student will be certified as a corrective therapist.

Therapy Courses (THY):

421—**Clinical Experience.** 3-4-0-Q. Lectures and supervised internship in various rehabilitation theories and their applications.

431, 432, 433—**Rehabilitation Theory and Application.** 3-4-0-Q. Lectures, directed clinical work, and research in rehabilitation theory and its application.

441, 442, 443—**Psychology of Rehabilitation.** 3-4-0-Q. The approach to rehabilitation as it involves the individual in the mental and physical phases of readjustment.

453—**Supervision of Therapy and its Application.** 3-4-0-Q.

PED PROGRAM 3—**The University Psysical Education Service Program**

This program is designed to contribute to the general education of all students. In the 100-level activity courses students learn the basic skills of life-time sports and fitness which may be applied in the intramural program or during other times of leisure. The upper level service courses are designed to provide in-depth skill development in a particular area of interest.

Courses which may be substituted for the two (2) course physical education core requirement are AAC 210, 211, 212, 213, 214, 215, 362, or 460; REC 180, 181, 182, 183, 184, 185, or 186.

PED PROGRAM 4—**The Recreational Sports Program**

This program is designed to provide students and faculty members with opportunities to participate in recreational activities on a competitive/non-competitive basis. For details concerning this program, consult the **Recreational Sports Handbook** published annually by the Department of Physical Education.

DEPARTMENT OF RECREATION (REC—745)

L. Charles Burchell, Chairman

J. B. Brechtel, P. Jones, T. Lee,

The Department of Recreation offers programs in four areas of specialization. All programs require the completion of a series of departmental or inter-departmental courses and lead to a Bachelor of Science degree with a major in recreation and concentration in the particular specialization.

DEPARTMENTAL CORE REQUIREMENTS

All students majoring in recreation will be required to complete a series of basic recreation courses. The required courses are: REC 200, 203, 210, 211, 212, 323, 402, and 403.

PROGRAM SPECIALIZATIONS

REC PROGRAM 1—**Community and Municipal Recreation**

This program provides a curriculum for students interested in career work as administrators, supervisors, or leaders with city and county recreation departments and youth-service organizations.

Courses required are: REC 322, 413, 415, 422, 424, and 426.

Other required courses are: REC and/or PED activities, ACC 201, SOC 310, MGT 364, PS 402, and BED 460.

Electives may be selected in order to complete a total of 128 hours.

REC PROGRAM 2—**Recreation Planning and Resources Management**

This program provides a curriculum with concentration in the planning and management aspects of parks and recreation. It has been designed for students who desire career recreational planning and/or management specialities. Such specialists work as park and recreation planners, park managers, park rangers, and interpretors.

Courses required are: REC 342, 415, 417, 432, 434, 436, 441, and 447.

Other required courses for Recreation Planning Option are: REC and/or PED activities, TEC 392, GHY 210, GHY 360, GHY 361, and BED 460.

Other required courses for Resources Management Option are: REC and/or PED activities, GHY 210, GHY 370, GHY 473, MGT 364, and BED 460.

Electives may be selected in order to complete a total of 128 hours.

REC PROGRAM 3A—**Therapeutic Recreation, Noncertification**

This program provides a curriculum for students interested in working as recreational therapists in hospitals, mental and corrective institutions, rehabilitative centers, retirement villages, or in special education centers.

Courses required are: REC 322, 341, 342, 424, 451, and 452.

Other required courses are: REC and/or PED activities, PED 401, 404 and SPE 400, 425, 428, and 440.

Electives may be selected in order to complete a total of 128 hours.

REC PROGRAM 3B—**Therapeutic Recreation, Teaching Certification**

This program provides a curriculum for students who desire certification in teacher education and special education. These students will be prepared for teaching assignments in special education in public schools as well as therapeutic recreation in hospitals and institutions.

Courses required are: REC 322, 341, 424, 451, and 452; PED 401, 404; CIE 306, 309, 311 or 312, 343; CIF 300; EPY 370, 374; SPE 200, 201, 202, 400, 401, 402, 403, 411, two SPE electives (6) hours for state certification; and (9) hours for student teaching.

REC PROGRAM 4—**Leisure Studies**

This option is designed for students who wish to pursue a general recreation education with emphasis in the areas of contemporary leisure values and philosophies. Students in this program may not be required to complete the recreational fieldwork requirement, REC 403, but may option additional course work.

Courses required are: REC 322, 341, 342, 424, 432, and 447.

Other required courses are: REC and/or PED activities, PHI 151, MUS 165, ARE 207, ANT 211, PSY 231, HTH 422, 430, and HIS 441.

Electives may be selected in order to complete a total of 128 hours.

NOTES

SCHOOL OF HOME ECONOMICS

Sarah L. Weaver Gibbs, Dean

PURPOSE

The curricula in the School of Home Economics are planned to place major emphasis on careers and on improving family life. Students are prepared to assume responsibilities in areas related to the various asspects of living concerned with the environment of the individual, the family, and the community.

ORGANIZATION

The School of Home Economics is divided into four departments; Environmental Design, Family Life Services, Institution Administration, and Home Economics Education. Each of these departments presents a Bachelor of Science degree. Two-year schedules which lead to a certificate are offered to School Lunch Managers and Head Start and Day Care Center Directors.

CURRICULUM: SCHOOL CORE

	Hours
English	
ENG 101, 102	6
Humanities and Fine Arts	
HIS 101, 102 or 140, 141	6
ART 111 or ARE 207	3
Mathematics	
MAT 120 or 101 (210 for child development majors)	3
Other Courses	
PA 111	3
Physical Education or ROTC/AFROTC or approved substitute	2
Science (Refer to major for specific requirements)	6
Social Science	
PS 101, SOC 101, PSY 110	9
(Child development majors see major for specific requirements)	
CT 131 (Not required of institution management, child development, or marriage and family living majors)	3
F&N 163, 261 (Not required of clothing and textiles and clothing merchandising majors)	6
Total	41 to 47

CURRICULUM MAJORS

The curriculum requirements for majors are outlined under the respective sub-titles below.

OFFERINGS FOR NON-MAJORS

Students may earn a minor in home economics by selecting nineteen (19) hours of work from the various departments. Courses may be selected for electives. Non-majors may take courses without taking the prerequisites with permission from the instructor.

DEPARTMENT OF ENVIRONMENTAL DESIGN (C&T–810) (EVD–812)

Sue Sharp, Acting Chairman

C. Easterling, E. Davis, A. Stamper

Two majors are currently offered in the Department of Environmental Design. They are clothing and textiles and clothing merchandising. The department also serves the

clothing and textiles needs of other majors in the School of Home Economics and provides elective courses for non-majors.

Each curriculum offers information and experiences that will enable students to solve more satisfactorily their personal and family—or potential family—clothing and household textile problems. Professional opportunities abound in fashion, teaching, research, extension, and communications.

Clothing and textiles majors find positions mainly through work with textile, fabric, and pattern companies, consumer education jobs with manufacturers, and in writing for magazines, newspapers, radio, and television, depending upon the specialized preparation and interest of the individual student. An adviser helps students select background courses for specialized areas. Some students enter the teaching field.

The clothing merchandising curriculum provides basic courses in clothing, textiles, economics, business, and field experience. With this background, graduates are prepared to move into executive training programs offered by large department stores throughout the country. Such training programs lead into positions as buyers, training supervisors, fashion coordinators, comparison shoppers, radio and television script writers, and numerous other jobs involving some aspect of retailing.

CLOTHING AND TEXTILES

Suggested Minors: Art, Radio-TV-Film, Journalism, Communication, Management, Business

	Hours
General and School Cores	40
Science: 6 hours of physical science or biology or chemistry, depending on choice of minor.	
Major and School Requirements	43
C&T 328, 330, 332, 333, 335, 336, 430, 431, 432, 433, 434, 437	35
F&N 362	3
MFL 150, 351	5
Other Requirements	9
ECO 255	3
JOU 102	3
RTF 271	3
Minor Area	21 to 25
Electives	9 to 14

CLOTHING MERCHANDISING

Suggested Minors: Marketing, General Business, Management, Journalism, Communication, Radio-TV-Film

	Hours
General and School Core	41
Science: 6 hours of physical science or biology or chemistry	
Major and School Requirements	35
C&T 221, 328, 330, 332, 333, 335, 435, 437, 439	27
F&N 362	3
MFL 150, 351	5
Other Requirements	18
PSY 251	3
ECO 255 or 256	3
ART 111	3
JOU 102	3
ACC 201, 202	6
Minor Area	21 to 25
Electives	9 to 13

DEPARTMENT OF FAMILY LIFE SERVICES (CD–805) (HHM–825) (MFL–830)

Altra H. Hamman, Chairman
Chichester, Dickerson, Lancaster, H. L. Rogers, Tuggle

The Department of Family Life Services offers the Bachelor of Science degree in child development with Nursery-Kindergarten Teacher Certification; home economics in equipment; and marriage and family living. A two-year course in child development which leads to a certificate is offered for Head Start and Day Care Center directors.

NURSERY SCHOOL

The University Nursery School was established in 1929 as a unit within the School of Home Economics to provide a laboratory in which students might observe the development and relationships of a group of normal, healthy, young children and participate in directing the various nursery school activities. The school accommodates children between the ages of three and five years. It operates on a half-day schedule from 8:30 to 11:45 in the morning, five days a week, throughout the year.

The daily program is planned to create an environment rich in possibilities for developing the child's mental, physical, and social self as well as attaining a greater degree of emotional maturity. The enrollment is make up of an equal number of boys and girls in the various age groups from town, faculty, and student families.

The Nursery School, which was the first to be established in Mississippi, is located on the first floor of the Home Economics Building. It has ample space indoors and a large porch and fenced-in play area outdoors. In both space and equipment it meets high standards. The climate permits outdoor play the year round. Requests for registration must be filed with the Director of the Nursery School well in advance of the time the child is to be enrolled. Any child who meets the age and development requirements may qualify.

INFANT DEVELOPMENT CENTER

The Infant Development Center, the newest child development laboratory, provides learning experiences in observation and participation with children less than three years of age. Students are able to see and to work with two-year-olds in a morning play group and to help care for infants who are given all day care. This Center increases the opportunities for home economics majors to observe, study, and participate with children from babyhood through preschool years. The child development program enriches the home economics major by providing learning experiences that develop competencies in understanding infants and young children.

CHILD DEVELOPMENT

	Hours
General and School Cores	44
Science required: FS 131, 132	
Social Science: Six hours must be taken from the following courses: ANT 101 or 212, ECO 100, GHY 103, PS 101, SOC 101	
Major and School Requirements	43
MFL 150, 351	5
CD 350, 351, 450, 451, 452, 453, 454, 455	25
F&N 363	3
HHM 345, 442, 443	10
Other Requirements	38
ARE 309	3
EPY 370	3
CIE 317 or 306, 403	6
English (courses numbered 200 or above)	6
FS 133, 134	6

HTH 101, 310	5	
MAT 310	3	
MED 361	3	
SCE 432 or CIE 301	3	
Electives		3
Total		128

TWO-YEAR CERTIFICATE COURSE IN CHILD DEVELOPMENT

General Education		Hours
General Education		26
ENG 101, 102	6	
PA 111	3	
PSY 110, EPY 370	6	
SOC 101	3	
HTH 101, 310	5	
SCE 432	3	
Home Economics		18
CD 350, 351, 359, I, II, III, 450, 451, 452, 453, 454, 455 (choice)	15	
F&N 363	3	
Recommended Electives		20
CIE 309, 311, 317, 414, CIF 300		
MAT 210, 310		
ARE 207, 309		
MED 361, 362		
MFL 150, 351		
SPE 400, 402, 411		
PED 320, 450		
Total		64

HOUSING AND HOME MANAGEMENT (HHM–825)

The increasing opportunities for home economists in business with utility companies and manufacturers of equipment for the home have created many postions for those with the necessary educational background. The major, home economics in equipment, is designed for those preparing for such careers.

HOME ECONOMICS IN EQUIPMENT

		Hours
General and School Cores		47
Science required: BIO 101, MIC 261		
Major and School Requirements		60
CD 350	3	
C&T 332, 330 or 334, 431	9	
F&N 362, 370, 430	8	
HEE 301, 302, 402	10	
HHM 340, 345, 401, 441, 442, 443	25	
MFL 150, 351	5	
Other Requirements		9
RTF 271	3	
PA 210	3	
MKT 330	3	
Electives		12
Total		128

MARRIAGE AND FAMILY LIFE (M&FL–830)

Marriage today is becoming widely recognized as the most important vocation for which young people can prepare.

The objectives of the marriage and family life curriculum are two-fold: first, to assist college students to grow into intelligent, effective, and satisfying family members in their own homes; and second, to prepare them for a career of service in working with families and youth.

MARRIAGE AND FAMILY LIVING

	Hours
General and School Cores	44
Science required: BIO 101, MIC 261	
Major and School Requirements	28
MFL 150, 151, 351, 451, 452	14
CD 350, 451	6
HHM 340	3
HEE 302	3
F&N 360	2
Other Requirements	26
SOC 314, 450	6
HTH 310, 422, 430	8
EPY 371, 372	6
PSY 455	3
FIN 320	3
Electives to be selected from the following areas:	15
Home Economics, Sociology, Health, Psychology	
Electives (free choice)	15
Total	128

DEPARTMENT OF INSTITUTION ADMINISTRATION (IAD–817) (FOOD AND NUTRITION–F&N 815) (HOTEL AND RESTAURANT ADMINISTRATION–HRA 818)

Margaret McCarthy, Chairman
M. Landry, Reeves, Rompf
Gibbs, Wilgus

This area provides courses in foods, nutrition, institution administration, dietetics, and hotel and restaurant administration for undergraduate and graduate students. Some of the basic courses may be elected by non-majors from other schools of the University or by those selecting minors in food and nutrition or institution management.

Students selecting institution administration as a major can prepare for positions in public health, extension, research, journalism, commercial organizations, dietitians in hospitals, government services, clinics or consultants in restaurants, hotels, motels, country clubs, school food service, industry, and related fields depending upon their minor.

Institution management-dietetics curriculum meets the academic requirements for membership in the American Dietetic Association and qualifies the student for an internship approved by the association. Institution management and food and nutrition curriculums may also lead to meeting academic requirements in the American Dietetic Association.

Hotel and Restaurant Administration curriculum prepares students for positions in the travel and hospitality industry, college and university food service, clubs and in related businesses. For more information, see the chairman of the Department of Institution Administration.

A two-year certificate course is available for school lunch managers. The School of Home Economics in cooperation with the State Department of Education sponsors an annual School Lunch Managers Workshop.

CHARCOAL ROOM

The Charcoal Room is a modern academic laboratory for institution management majors. The Charcoal Room is in the University Commons which is centrally located on the campus.

The facility provides good food of high quality in attractive surroundings for congenial association of faculty members, staff, and graduate students with their colleagues, guests, and families. It also offers an excellent stimulating experience and training center for institution management majors under the guidance of the institution management faculty.

INSTITUTION MANAGEMENT-DIETETICS

Suggested minors are: for food and nutrition majors—chemistry or journalism; for institution management-dietetics majors—chemistry, general science, or health; and for institution management majors—chemistry, marketing, accounting, biology, economics, art, or management.

	Hours
General and School Cores	44
Science required: BIO 101, MIC 261 (6 hrs)	
Major and School Requirements	31
F&N 362, 370, 430, 460, 461, 470, 471, 472, 473, 474	31
Other Requirements	38
EPY 374	3
CHE 101, 102, 251, 252, 321	15
BIO 202	3
ECO 200 or 256	3
ACC 201	3
MGT 360	3
MGT 364 or PSY 451	3
HTH 101, 310	5
Electives	15
Total	128

INSTITUTION MANAGEMENT

Minor: Business

	Hours
General and School Cores	44
Science required: BIO 101, MIC 261 (6 hrs)	
Major and School Requirements	31
F&N 362, 430, 460, 470	12
IAD 370, 471, 472, 473, 474	16
HEE 302	3
Other Requirements	20
CHE 101, 102, 251, 252, 321	15
HTH 101, 310	5
Minor Requirements	21
ACC 201	3
ECO 200	3
GBA 100	3
MGT 360, 364, 454	9
MKT 330	3
Electives	12
Total	128

HOTEL AND RESTAURANT ADMINISTRATION

	Hours
General and School Cores	38
Science required: BIO 101, MIC 261 (6 hours)	
Major and School Requirements	42
HRA 179, 475, 476, 479	18
IAD 272, 273, 370, 471, 472, 473, 474	22
F&N 360	2
Other Requirements	27
MGT 360, 364, 454, 370	12
ECO 256	3
ACC 201, 202	6
MKT 355	3
FIN 389	3
Electives	21
Total	128

A practicum of 400 hours work in acceptable hotel, motel, or food service is required.

FOOD AND NUTRITION

Minor: Journalism or Chemistry

	Hours
General and School Cores	44
Science required: BIO 101, MIC 261	
Major and School Requirements	28
CD 338	3
HHM 315	3
MFL 150, 351	5
F&N 362, 430, 460, 461	12
IAD 370	2
HEE 302	3
Other Requirements	21
CHE 101, 102, 251, 252, 321	15
ECO 256	3
HTH 101	3
Minor	21
Electives	14
Total	128

TWO-YEAR CERTIFICATE COURSE

A two-year schedule of courses which leads to a certificate is planned for school lunch managers. The program includes general education courses as well as those designed to add to the special preparation of the individual as a school lunch manager.

Curriculum

General Education Courses	Hours
ENG 101, 102	6
MAT 120	3
HIS (any course)	3
PSY 110	3
BIO 101	3
HTH 101	3
ART (any course)	3
HTH 310	2
MFL 150	2

ECO 200	3
English (Literature)	3
F&N 163	3
F&N 261	3
F&N 362	3
IAD 271	3
IAD 272	3
IAD 273	3
Electives	12
Total	64

DEPARTMENT OF HOME ECONOMICS EDUCATION (HEE–820)

Mary E. Faulkinberry, Chairman
G. Bryant, Milner

The Home Economics Education curriculum includes the requirements for teacher certification as set by the Mississippi State Department of Vocational Educational and qualifies graduates to teach in secondary schools under the requirements of the Federal Vocational Acts. Graduates are prepared to take places in the professional and business communities as teachers of home economics, home service directors for utility and manufacturing companies, home economist with the Cooperative Extension Service as well as employees in other agencies concerned with consumer and homemaking education.

HOME ECONOMICS EDUCATION

	Hours
General and School Cores	46 to 47
Science required: CHE 101, 102 (6 hours)	
Major and School Requirements	53
F&N 362	3
CD 350	3
C&T 330, 332, 333	9
MFL 150, 351	5
HHM 340, 345, 442, 443	13
HEE 301, 302, 402, 403, 111	20
Other Requirements	27
HTH 101	3
BIO 101	3
MIC 261	3
ENG 200 or 201 or 202 and 332	6
EPY 372, 374	6
CIS 313	3
CIF 469	3
Electives	1 to 2
Total	128

COLLEGE OF LIBERAL ARTS

Claude E. Fike, Dean

PURPOSE

It is the purpose of the College of Liberal Arts to provide a broad cultural and educational experience, specialized disciplines in major and minor fields, and pre-professional programs. Consult the **Graduate Bulletin** for postbaccalaureate programs.

A student entering the College of Liberal Arts will be assigned to the departmental chairman of his major field for academic advisement. The specific Bachelor of Arts or Bachelor of Science degree requirements of the College of Liberal Arts are listed below. See departmental offerings for major and minor requirements.

For the **Bachelor of Arts Degree:**

	Hours
*English (Fifteen hours beyond ENG 100)	15
History	6
Other Courses	12
Twelve hours from the following areas (no more than three hours in any one area): **Allied Arts** or **Enjoyment of Music,** anthropology, geography, political science, philosophy, public address, sociology	
**Science (May include Fundamentals of Science)	6
(The Science 131 series will not satisfy degree requirements except for Elementary Education majors.)	
Mathematics	3
***Foreign Language	12 or less
Physical Education or approved substitute or ROTC/AFROTC	2-3

*Three semester hours must be a 300-level or above composition course.
SHS 202 will satisfy three hours of science requirements for the Liberal Arts degree, but **will not be accepted for certification.
***Depending on placement

For the **Bachelor of Science Degree:**

	Hours
English (Fifteen hours beyond ENG 100)	15
History	6
*Science (May include Fundamentals of Science)	12
(The Science 131 series will not satisfy degree requirements except for Elementary Education majors.)	
Mathematics	3
**Other Courses	21
Twenty-one hours from the following areas (no more than three hours from any one area): **Allied Arts** or **Enjoyment of Music,** anthropology, economics, geography, Health 101, philosophy, political science, psychology, public address, sociology	
Physical Education or approved substitute or ROTC/AFROTC	2-3

*SHS 202 will satisfy three hours of science requirements for the Liberal Arts degree, but **will not be accepted** for certification.
**Students who certify to teach must also include PA 111, PSY 110, AA 100 or MUS 365, and HTH 101.

ORGANIZATION

The College of Liberal Arts is organized into thirteen departments: Aerospace Studies; Criminal Justice; English; Foreign Languages; Geography and Area Development; History; Journalism; Military Science; Philosophy and Religion; Political Sci-

ence; Sociology and Anthropology; Radio, Television, and Film; and Speech and Hearing Sciences. The Departments of Aerospace Studies and Military Science have no academic major or minor. Other departments offer both majors and minors.

A major and a minor in Advertising, American Studies, Community and Regional Planning, Latin American Studies, Linguistics, Social Studies, and Teaching English to Speakers of Other Languages are administered by the College of Liberal Arts and involve an interdisciplinary curriculum (see description below).

ADVERTISING PROGRAM

Birthney Ardoin, Director

The Departments of Journalism and Radio,Television, and Film offer a major in advertising through an interdisciplinary program administered in conjunction with the Department of Marketing in the College of Business Administration.

The advertising major is designed to prepare students to work in advertising agencies, business, and industries that require advertising departments, or as specialists in the mass media.

Advertising majors in Liberal Arts may follow either a Bachelor of Arts or a Bachelor of Science curriculum dependent upon specialized interests. A curriculum plan should be developed with the major adviser early in the program.

Advertising majors do not have a separate minor. Majors must complete fifty-four (54) semester hours from the following recommended curriculum.

MKT 300 Principles of Marketing
MKT 322 Marketing Problems
MKT 342 Principles of Retailing
MKT 355 Principles of Advertising
MKT 365 Consumer Behavior
MKT 424 Marketing Research
MKT 455 Advanced Advertising
JOU 140 Elements of Photography
JOU 312 Design Typography
JOU 331 Print Media Advertising
JOU 418 Practicum in Advertising
RTF 271 Basic Film Production
RTF 330 Broadcast Advertising
RTF 440 TV Production
RTF 431 Advertising Management and Sales

Elect three courses from the following: JOU 240, JOU 460, RTF 311, RTF 371, RTF 407, RTF 425, RTF 460.

Elective courses from the following Behavioral Science listings are recommended:

PSY 110 General Psychology
PSY 251 Applied Psychology
PSY 375 Developmental Psychology
PSY 455 Social Psychology
SOC 101 Introduction to Sociology
SOC 240 Social Problems
SOC 310 Urban Sociology
SOC 450 Social Foundations of Personality
HIS 441 Popular Thought in America
PA 311 Persuasion

AMERICAN STUDIES PROGRAM (AMS–204)

David M. Landry, Director

The University of Southern Mississippi offers an interdisciplinary major and minor in American Studies. The program is designed for students interested in a broad liberal arts education. The major requires thirty (30) semester hours and the minor requires eighteen (18) semester hours. For students who desire to have a double major no minor is required.

Students are encouraged to have a second major in complementary, career oriented fields such as: pre-legal (political science), journalism, library science, business, radio-television-film, military science, and education.

Requirements for Major **Hours**

Group I. At least one course chosen from each of the following three fields:
English: 332, 370, 371, 372, 470, 471, 472, 477, 478, 485 3
History: 300, 340, 432, 440, 441, 442, 443, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457 3
Political Science: 303, 330, 401, 402, 404, 406, 407, 408, 409, 425, 434, 470, 471, 472, 473, 480, 481 3

Group II: Three hours (one course) from three different fields as listed below:
American Studies: 304
Anthropology: 315
Criminal Justice: 200, 201, 301, 303, 304, 308, 403, 407
Economics: 310, 424, 492, 494
Geography: 400, 402, 360, 370, 435, 440, 452, 453, 460
Journalism: 300, 301, 311, 313, 315, 402, 421, 422, 428, 450, 460
Public Address: 210, 315, 410
Radio-Television-Film: 270, 271, 302
Religion: 431
Sociology: 310, 311, 314, 341, 350, 420, 444, 471

Group III: Electives (any combination of three courses from Groups I and II) 9
American Studies Seminar (403) (Required of all majors in their senior year.) 3

30

The recommended courses for the minor include satisfying the requirements of Groups I and II in the major for a total of eighteen (18) semester hours.

COMMUNITY AND REGIONAL PLANNING PROGRAM

James W. Gladden, Jr., AIP Director

The Community and Regional Planning Program offers two concentrations of interdisciplinary study leading to a Bachelor of Science degree. These concentrations are (1) Urban and Transportation Planning and (2) Environmental Planning. The general objectives of the program are to provide:

(1) A basic core of practical training and course work in urban, transportation, and environmental planning;
(2) A generalized interdisciplinary core of related training, primarily behavioral and scientific knowledge and technical skills;
(3) A base upon which students can build a program of graduate study in community and regional planning, natural resources planning, or the social and environmental professions; and
(4) A general but systematic background for students who intend to assume position in planning and planning-related professions without further formal study.

1. Urban and Transportation Planning

Requirements for the Urban and Transportation Planning Concentration

The requirements for the major are fifty-six (56) hours in the College of Liberal Arts Core; forty-two (42) hours from the generalized Interdisciplinary Requirements; twelve (12) hours in Research Methodology; twenty-one (21) to twenty-seven (27) hours in the Community and Regional Planning Core; and twelve (12) hours of electives.

Liberal Arts Bachelor of Science Core **Hours**

Courses selected in the Liberal Arts core should include ECO 255, GHY 350, SOC 101, PS 101, and PA 111. 56

Generalized Interdisciplinary Requirements (14 of following)

JOU 421 Public Relations 3
ECO 422 Economics of Public Utilities 3
ECO 424 Economics of Urban Areas 3
ECO 480 Environmental Economics 3
SOC 240 Social Problems 3
SOC 310 Urban Sociology 3
PS 470 Public Administration 3
GHY 453 Transportation and Land Use 3
GHY 460 Urban Geography 3
GHY 463 Transportation Planning 3
GHY 475 Coastal Zone Management 3
REI 330 Real Estate Principles 3
GLY 306 Environmental Geology 3
HTH 421 Sanitation 3
ACT 392 Architectural Landscaping 3
ACT 456 Architectural Design IX 3
REC 436 Recreation Planning 3

Research Methodology

GHY 210 Cartography 3
GHY 411 Aerial Photo Interpretation 3
GHY 413 Field Methods in Geography 3
GHY 415 Quantitative Methods in Geography 3

Community and Regional Planning Core

GHY 360 Introduction to Community & Regional Planning 3
GHY 361 Regional Planning and Development 3
GHY 363 Community & Regional Planning I: Theory, Methods, and Analysis 3
GHY 364 Community and Regional Planning II: Comprehensive Planning Elements 3
GHY 465 Community and Regional Planning III: Programming and Implementation 3
GHY 466 Public Policy and the Planning Process 3
GHY 491 Internship 3
Electives 12

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2. Environmental Planning

Requirements for the Environmental Planning Concentration

The requirements for the major are fifty-six (56) hours in the College of Liberal Arts Core; thirty-three (33) hours from the Generalized Interdisciplinary Requirements; Twelve (12) hours in Research Methodology; thirty-six (36) to forty-two (42) hours in the Environmental Planning Core; and six (6) hours of electives.

Hours

Liberal Arts Bachelor of Science Core 56

Courses selected in the Liberal Arts Core should include ECO 255, GHY 350, SOC 101, PS 101, and PA 111. Science requirements must include BIO 101 and 102, GLY 101 and 105 and/or ESC 105.

Generalized Interdisciplinary Requirements

ECO 480 Environmental Economics 3
GLY 306 Environmental Geology 3
BIO 461 Ecology I 3
BIO 462 Ecology II 3
GHY 370 Conservation of Natural Resources 3
PS 470 Public Administration 3

Five of the following:
BIO 255 General Botany 3
BIO 340 Dendrology 3
BIO 455 Economic Botany 3
BIO 460 Biogeography 3
BIO 466 Limnology 3
ESC 205 Environmental Problems III 3
ESC 302 Environmental Improvement Projects 3
REC 436 Recreation Planning 3
REC 441 Resources Management and Policy 3
REI 330 Real Estate Principles 3
ACT 392 Architectural Landscaping 3
SOC 311 Rural Sociology 3

Research Methodology
GHY 210 Cartography 3
GHY 411 Aerial Photo Interpretation 3
GHY 413 Field Methods in Geography 3
GHY 415 Quantitative Methods in Geography 3

Environmental Planning Core
GHY 223 Weather and Climate 3
GHY 224 Geography of Landforms 3
GHY 360 Introduction to Community & Regional Planning 3
GHY 361 Regional Planning and Development 3
GHY 364 Community and Regional Planning II:
Comprehensive Planning Elements 3
GHY 465 Community and Regional Planning III:
Programming & Implementation 3
GHY 462 Environmental Planning 3
GHY 491 Internship 3-9
One of the following:
GHY 421 Environmental Climatology 3
GHY 422 Geography of Soils 3
Three of the following:
GHY 472 Forest Resource Management 3
GHY 473 Water Resources 3
GHY 474 Watershed Management 3
GHY 475 Coastal Zone Management 3
Electives 6

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LATIN AMERICAN STUDIES PROGRAM

Orazio Ciccarelli, Director

The Latin American Studies Program offers: (A) an interdisciplinary major in Latin American Studies; (B) an interdisciplinary minor in Latin American Studies, (C) a major in Latin American Foreign Trade. The program is designed to prepare students for careers in government, business, teaching, or private organizations having Latin American interests. The requirements listed below are in addition to the General College Core curriculum for either the Bachelor of Arts or the Bachelor of Science degree. Students pursuing this program will be advised by the director of the Latin American Studies Program.

A. INTERDISCIPLINARY MAJOR IN LATIN AMERICAN STUDIES

Hours
1. HIS 380 and 381 6
2. HIS 480, 481, or 482 3
3. GHY 403 or 404 3

4. PS 456 3
5. PS 434 or 458 3

Total 18

and a total of twelve (12) hours elected from courses in history, geography, political science, economics, anthropology, sociology, and geology relevant to Latin America and approved by the director of the Latin American Studies Program.

In addition, the student must complete Spanish or Portuguese studies in the Foreign Language Department relevant to Latin America equal to at least six (6) hours above the 300-level.

B. INTERDISCIPLINARY MINOR IN LATIN AMERICAN STUDIES

	Hours
1. HIS 380 and 381	6
2. GHY 403 or 404	3
3. PS 434 or 456	3
Total	12

and a total of six (6) hours elected from courses in history, geography, Spanish, political science, economics, anthropology, sociology, and geology specifically related to Latin America.

A certificate of competency will be granted upon completion of the above requirements.

C. MAJOR IN LATIN AMERICAN TRADE AND FINANCE

	Hours
1. ECO 255 and 256	6
2. ACC 201 and 202	6
3. FIN 389	3
4. FIN 472 or 480	3
5. ECO 330	3
6. ECO 340 or 345	3
7. ECO 435 or Marketing 485	3
8. MKT 300	3
9. MGT 360	3
10. PS 434, 456 or 458	6
11. HIS 381	3
12. HIS 480, 481, or 482	3
Total	45

and a total of six (6) hours from courses in economics, finance, marketing, management, geography, history, political science, geology, and anthropology relevant to Latin America and approved by the director of the Latin American Studies Program.

In addition, the student must complete Spanish or Portuguese studies in the Department of Foreign Language relevant to Latin America equal to three (3) hours above the 300-level.

LINGUISTIC PROGRAM

Marice C. Brown, Director

The Linguistics Program is interdisciplinary in nature and is drawn from the Departments of English and Foreign Languages, and other departments offering linguistically related courses. It is primarily designed to undergird careers calling for proficiency in the use and/or analysis of languages: the teaching of languages (including English either as a first or second language), government service, business with overseas operation, and the area of international relations. Students pursuing this program will be assigned an adviser by the director of the program.

Requirements for Major

A. One course selected from each group below
   1. FL 300, PA 210, SHS 201 3
   2. ENG 400 3
   3. ENG 402, FL 312, 322, 372, 400 3

   9

B. Seven courses (twenty-one semester hours) selected from the courses listed below
   1. ANT 311, 411
   2. ENG 401, 406, 409
   3. FL 312, 322, 372
   4. PA 324

   Total 30

Requirements for Minor

A student wishing to obtain a minor in linguistics must take three courses from (A) above and four courses from (B) above.

PRE-LAW PROGRAM

Adviser: Dr. Marquardt

The requirements for admission to law schools vary slightly, and a pre-law student should obtain the entrance requirements from the law school of his choice. In general, law schools expect a student to possess a bachelor's degree with a major in a content field. History, philosophy, business administration, and political science are traditional majors. Most other content majors are equally acceptable, however.

All law schools require their students to be able to express themselves well in written composition. Therefore, a student who is weak in composition should take extra composition courses.

When a student first arrives, he should go to a pre-law adviser each time he registers; but when he selects a major, he should get an adviser from that department and thereafter see the pre-law adviser only regarding special problems.

After consultation with law school administrators and practicing attorneys the following minor has been constructed to assist students preparing for law school:

	Hours
Accounting 201	3
Economics 255	3
English 300 or 432	3
Political Science 380 or 481	3
Political Science 483	3
History 412, 456, Political Science 301, 407, 480, Philosophy 358, or General Business Administration 295	6
	21

Almost all law schools require applicants to take the Law School Admission Test nine months before entering law school. The pre-law adviser can inform a student of the dates and places where this test is given, but each student must make his own arrangements to take the test.

SOCIAL STUDIES PROGRAM

J. Ray Skates, Director

The interdisciplinary major and minor in the area of Social Studies is jointly sponsored by the College of Liberal Arts and the College of Education and Psychology.

This program is open to both prospective teachers as well as those students desiring a broad preparation in the social sciences. Consequently a student majoring in social studies may elect the degree program of either college. Students who plan to teach in the public schools must meet the professional certification requirements of the College of Education and Psychology. It is recommended that a student who is planning to teach the social studies in junior or senior high school take this interdisciplinary major as it more adequately prepares one to teach all the social studies courses currently offered in the public schools.

Requirements for the Social Studies Major

The social studies major requires a minimum of fifty-four (54) hours, a number of which will fulfill the core curriculum requirement in the social sciences. Although no formal minor is required, prospective teachers will necessarily complete the twenty-seven (27) hours block in secondary education. The social studies major must complete the following program of courses:

History	Hours
HIS 101, 102-World Civilization	6
HIS 140, 141-United States History	6
HIS 341-Mississippi History	3
History electives	6
Political Science	
PS 101-American Government	3
PS 301-State and Local Politics	3
Sociology	
SOC 101-Introduction to Sociology	3
SOC 310-Urban Sociology **or** SOC 311 Rural Sociology	3
Economics	
ECO 255, 256, Principles of Economics I, II	6
Geography	
GHY 103, World Regional Geography	3
GHY 331, 341, or 350	3
Nine (9) hours of electives from three (3) of the following fields: economics, geography, political science, sociology	9

Requirements for the Social Studies Minor (non-teaching)

The minor in social studies will consist of twenty-one (21) hours in no less than four of the six fields specified above, and a minimum of twelve hours in courses numbered 200 or above. The designated fields are history, political science, sociology, economics, geography, and anthropology.

THE PROGRAM OF TEACHING ENGLISH TO SPEAKERS OF OTHER LANGUAGES

Bonnie C. Brinegar, Director

A student earning a bachelor's degree with a major in Teaching English to Speakers of Other Languages (TESOL) will be certified to teach English to nonnative speakers both in the United States and abroad. In addition, the student will be certified to teach English to native speakers in Mississippi. Also, the requirements for foreign language certification in Mississippi are met by the TESOL program, provided that 2 units in the modern language elected have been earned in high school or provided that 18 hours of that language are taken at the college level.

By meeting either the English or foreign language major requirements, a TESOL student may receive NCATE certification, automatically certifying that student to teach English or a foreign language to English speakers in 31 states.

English: **Hours**

English 101
English 102
English 340
English 400
English 401
English 402
English 454 or 455
One course in American Literature
One course in British Literature after 1700 27

Foreign Language:

One course in Latin
Four courses in a modern language
FL 300 18

Education and Psychology:

EPY 372, 374
CIF 300, 469
CIS 454 or 455
CIS 484 or 485
CIS 313 27

History:

History 101, 102 or 140, 141 6

Social Sciences:

Two courses (only one from an area) from the following: anthropology, economics, geography, political science, sociology 6

Science:

Two courses in physical science
Two courses in biological science 12

Mathematics

One course excluding MAT 210 3

Psychology:

PSY 110 3

Fine Arts:

Allied Arts 100 or Music 165 3

Public Address:

PA 210 3

Health:

HTH 101 3

PED or ROTC/AFROTC 2

DEPARTMENT OF AEROSPACE STUDIES (AOS–202) (AIR FORCE ROTC)

Hugh D. McCracken, Jr., Chairman
Collins, Lageose, Patton

The Air Force ROTC Program offers a course of study leading to a commission as a Second Lieutenant in response to Air Force needs. The Air Force ROTC Program is an

accredited part of any of the curricula of the University. Completion of AFROTC fulfulls academic minor requirements. Courses within the General Military Course may also be substituted for physical education requirements.

AFROTC REQUIREMENTS

Students may enroll in AFROTC if they meet the following requirements:

General Military Course: Men and women who are full-time University students may enroll in the General Military Course (GMC). The GMC courses are directed towards an in-depth survey of the Professional Officer Course and towards the missions and activities of the United States Air Force. There is no obligation associated with enrollment in any GMC course. The Professor of Aerospace Studies may grant credit or partical credit for completion of the GMC for students who have served on active duty, for junior or senior level ROTC participation in a program of any service, and for Civil Air Patrol work.

Professional Officer Course: Enrollment in the Professional Officer Course (POC) is limited to those students who have applied and been accepted for this course. Application is normally made while a member of the GMC or (for students not enrolled in the GMC) early during the academic year **prior** to the year of desired entry. Students with previous military service may apply for direct entry. Individuals entering the POC must have two academic years remaining in college as full-time students at the undergraduate and/or graduate level. All POC students are obligated to accept a commission after completing their studies and to enter the active duty Air Force.

DESCRIPTION OF BASIC PROGRAMS

Students who enter Air Force ROTC classes are considered to be in the Four, Three, or Two Year-Programs depending on their academic progress upon entry. Enrollment in the General Military Course offers the student maximum exposure to the Air Force without obligation and also affords maximum opportunity for scholarships and entry into the Professional Officer Course. The POC is normally preceded by either a four or six week orientation period conducted at various Air Force bases. USM students usually go to Panama City, Forth Walton Beach, Montgomery, San Antonio, or Los Angeles area bases for this orientation. Financial entitlements while in the POC normally total about $2,500.

AFROTC COLLEGE SCOLARSHIP PROGRAM

A combined institutional and Aerospace Studies committee nominates qualified freshman, sophomore, and junior cadets to compete for three-and two-year scholarships. Scholarships cover tuition, books, fees, supplies, and equipment, plus a $100 per month tax-free subsistence allowance. Scholarships are awarded on the basis of specific academic majors needed in the Air Force and to students who want to become pilots, navigators, or missile officers. Interested students should contact the Department of Aerospace Studies.

Four-year scholarships are also available to high school students. High school students interested in making application should write: Air Force ROTC (SDSF), Maxwell AFB, Alabama, 36112 during their junior year or before December of their senior year.

FLIGHT INSTRUCTION PROGRAM

The Flight Instruction Program (FIP) program provides academic and flight training to selected Professional Officer Course students. Flight training is conducted by a local accredited civilian flying school. The ground school (academic) portion is conducted by the Department of Aerospace Studies and includes theory of flight, weather, navigation, communications procedures, and Federal Aviation regulations.

DEPARTMENT ACTIVITIES

Air Force ROTC students are eligible for membership in Arnold Air Society and to participate in departmental activities. Arnold Air Society is a national service organization and sponsor of Angel Flight, a national coed service organization. Other departmental activities include orientation flights, visits to area bases, intramural sports, dining-in, and the Military Ball.

DEPARTMENT OF CRIMINAL JUSTICE (CJ–281)

Tyler H. Fletcher, Chairman
Alonzo, Braswell, Devine, Oubre, W. Porter, W. Taylor

The Department of Criminal Justice offers an interdisciplinary major and a minor for a Bachelor of Arts or Bachelor of Science degree and a graduate degree.

Requirements for the Major:

Twenty-four (24) hours in Criminal Justice courses, not including the Practicum, fifteen (15) hours in related courses in political science, fifteen (15) hours in either sociology and social work, communication (public relations), geography (community and regional planning) or anthropology and philosophy, and three (3) hours in drug identification. A minor is not normally required.

Criminal Justice Studies	**Hours**
CJ 200 Introduction to Criminal Justice	3
CJ 301 Police Methods and Organizations	3
or	
CJ 306 Correctional Methods and Organizations	3
CJ 400 Practicum	3-9
Advanced Electives in Criminal Justice Courses	18
Political Science	
PS 101 (Core)	3
PS 301	3
PS 480	3
PS 481	3
PS 402	3
Sociology and Social Work	
(Five of the 8 listed below)	
SOC 101 (Core)	3
SOC 230	3
SOC 240	3
SOC 310	3
SOC 350	3
SOC 330	3
SOC 341	3
SOC 444	3
Communication (Public Relations)	
(Five of the 9 listed below)	
PA 111 (Core)	3
JOU 102	3
JOU 301	3
JOU 421	3
JOU 422	3
JOU 425	3
PA 311	3
PA 330	3
PA 400	3
Geography (Community and Urban Planning)	
(Five of the 7 listed below)	
GHY 101 (Core)	3
GHY 400	3
GHY 360	3
GHY 453	3
GHY 465	3
GHY 460	3
GHY 466	3

Anthropology and Philosophy	Hours
(Five of the 8 listed below)	
PHI 151 (Core)	3
PHI 356	3
PHI 358	3
PHI 253	3
ANT 101 (Core)	3
ANT 212	3
ANT 320	3
ANT 420	3
Special Requirement	
PSC 440	3
Total hours in the major	60
Electives	15
Remaining Core	53
	128

DEPARTMENT OF ENGLISH (ENG–224)

Frank O'Hare, Chairman

W. H. Anderson, D. Berry, Blackwell, Breland, Brinegar, M. C. Brown, J. F. Davis, W. Everett, J. Freeman, George, Goff, Gwin, Hanshaw, Kay, Kolin, Lasater, J. Lewis, G. Lucas, McCartney, McCraw, C. Moorman, Orange, Phillips, P. Prenshaw, Richardson, Shands, C. Skates, R. Stamper, Stringer, Tharpe, F. Tucker, M. Weatherford.

Students may obtain an undergraduate English or Public Address major under a program leading to a Bachelor of Arts or a Bachelor of Science (teaching or non-teaching) degree. For assistance in determining the appropriate program, students should consult an adviser in their major. For information on master's and Doctor of Philosophy programs a student should consult the **Graduate Bulletin.**

Students working toward any degree must include in their curriculum the required core subjects.

ENGLISH

An undergraduate major in English consists of a total of thirty-six (36) hours beyond the freshman level, of which at least twenty-one (21) hours must be at the junior and senior level. It is strongly recommended that majors take twenty-four (24) hours at that level. Students expecting to use English as a teaching minor in Mississippi should be aware that state certification in English requires a minimum of thirty (30) semester hours of English or twenty-seven (27) hours of English and three (3) of speech.

Students should take some sophomore level work before enrolling in junior level courses and some junior work before enrolling in senior courses. Students must include among their advanced courses at least one in each of the following categories: (1) English or World Literature before 1700 or Language; (2) English or World Literature after 1700; (3) American Literature. Analysis of Literature (ENG 340) is a writing course required of all English majors. For teacher certification, students must take one advanced course in grammar and two in English Literature, of which at least one must be in Shakespeare.

An undergraduate student minoring in English must take a total of twenty-four (24) hours in the department, including at least nine (9) at the junior or senior level.

The Center for Writers is a part of the Department of English. It provides optimum conditions for students who write or wish to write poetry, fiction, or nonfiction prose.

PUBLIC ADDRESS

Students in Public Address elect a major curriculum from among these degree programs: Public Address, Communication, or General Speech Education. While the descriptions below are representative of the programs, each student should work closely

with an adviser to develop a personal career plan. All public address majors, regardless of degree program, are required to take PA 100, 111, 311, 312, 417; and ENG 332, 432.

Public Address Degree Program

The Public Address major is designed to prepare students for careers as speech writers and consultants as well as to prepare prospective graduate students for teaching in the field of communication. Pre-professional students in law and the ministry find Public Address a valuable major. A minimum of thirty-three (33) hours of major course work is selected from among the following courses: PA 100, 111, 112, 210, 310, 311, 312, 315, 330, 400, 410, 417, and 492.

Students who minor in Public Address should complete twenty-one (21) hours among which PA 100, 111, 210, 311, and 312 are particularly recommended.

Communication Degree Program

The Communication degree program is designed to prepare students for careers as communication specialists within business and industrial organizations, trade and professional associations, government agencies, and public institutions. Students are advised to obtain practical experience in interpersonal, group, and graphic communications concurrent with their academic program. A broad grounding in liberal arts and the social sciences is desirable.

Unless an adviser approves substitutions or deletions, majors take the following courses: PA 100, 111, 311, 312, 330, 400, 403, 410, 417, 492; ENG 332, 333, 432; JOU 425; and MGT 360, 455. Majors are advised to take a mixed-minor comprised of JOU 102, 140, 311, 313; MGT 364, 454, 456.

General Speech Education Degree Program

The General Speech Education program prepares students to teach speech and supervise speech activities at the secondary level. The Public Address major working toward the Bachelor of Science teaching degree must meet general and professional education requirements, including a minor in secondary education, in addition to meeting departmental requirements. Speech education majors are required to participate actively in at least one season of intercollegiate debate and one major theatre production. The following program will fulfill the subject matter and professional requirements:

Nine courses from among the following:	Hours
PA 100, 111, 112, 210, 310, 311, 312, 315, 330, 410, 417	27
THE 111, 120	6
Two courses from among the following:	
PA 400, 403, 492; THE 306, 320	6
CIS minor requirements	27

Additional electives should be concentrated in a second teaching field. Recommended are: English, history, political science, or physical education. Other areas may be considered on recommendation of the major professor.

DEPARTMENT OF FOREIGN LANGUAGES (FL–228)

Roger Johnson, Jr., Chairman

E. Anglin, Austin, Buckley, Fontecchio, Harmon, McCrary, McCullough, R. Moorman, Neumann, Odom, Siverio

Candidates for either the Bachelor of Arts or the Bachelor of Science degree may choose a major or minor in the language areas of French, German, Spanish, or classics. The requirement for a major is at least twenty-seven (27) hours of credit none of which is at the 100-level. No more than a total of fifteen (15) hours of study abroad and conversation may be applied to a major, and the major program must include at least one course in literature. The minor requires eighteen (18) hours. (Students choosing to major or minor in classics must take both Greek and Latin for a total of the necessary hours of credit.) Language areas are indicated in the course titles. Where no single language is named, the course is open to students studying any foreign language, and such courses are applicable toward the degree programs in the various language areas.

Students may begin programs of specialization at an early date in their foreign language training. In cooperation with other departments at this University, the Department of Foreign Languages has established a number of formal and informal programs for the student who wishes to prepare for a career in which bilingualism can be of an advantage. The department offers, for example, courses that emphasize or supplement training in the following career areas: linguistics, translation, banking and business administration in connection with Common Market countries, government and diplomatic service, the military, foreign language teaching, literature, resource management, community and regional planning, and bilingual secretarial skills. Because such programs require individual advisement and counseling, students should consult with a foreign language adviser as soon as possible so that a workable curriculum can be devised. Since the beginning language courses are combinations of historical, cultural, and language material, they can function as electives for students in liberal arts, the sciences, and education, even though these students are pursuing neither a major nor minor in the department.

Most students taking a foreign language begin their study at the elementary level. If French is to be the language studied, the beginning student may enroll in **French: One,** and then continue through the next four basic courses: **French: Two, French: Three, French: Four** and **French: Five.** (Of course, those who have already studied the language they wish to continue here will enter the curriculum at an appropriate level.) After the basic courses, students normally proceed with the appropriate **Conversational Practicum** and **Advanced Grammar and Composition.** The courses, **Poetry, Prose Fiction,** and **Drama** may be taken as soon as the student is able to handle basic reading material in the foreign language he is studying. Because proficiency, and not hours of credit, is the basis for continuing study of a language, every course in the department has as its prerequisite the consent of the instructor.

Students interested primarily in literature should include a selection from FL 302, 303, 304, and 402; as well as an appropriate sequence in **History of Literature.** Those emphasizing language arts, linguistics, or translation skills should include FL 200, 300, 301, 400, and 403. Prospective teachers should enroll in FL 404, in addition to regular language courses and the courses necessary to meet requirements for teacher certification. Those wishing to gain language skills for becoming bilingual secretaries, public relations, consultants, businessmen, resource managers, airline stewardesses or stewards, area specialists, etc., should include language study through the **Conversational Practicum, Advanced Grammar and Composition,** and FL 403.

Any student taking a foreign language course has access to the Foreign Language Laboratory and may be required to attend laboratory sessions each week in connection with regular classroom meetings. Required laboratory work is at the discretion of the instructor and may vary from week to week.

DEPARTMENT OF GEOGRAPHY AND AREA DEVELOPMENT (GHY–268)

William M. Roberts, Chairman

Cross, Gladden, A. Kelley, McKee, Mealor, Traylor, Wales

Geography is concerned with the nature, development, and significance of the spatial attributes of the surface and atmospheric envelope of the earth. The discipline attempts to explain the variable character of the earth through an examination and analysis of the arrangement and interrelationships of a multitude of relevant cultural and natural phenomena.

As a university discipline, geography at USM serves a multiple objective: (1) to contribute to the student's broad understanding of the world, its conditions, and its peoples; (2) to prepare the student who desires to teach at the secondary level with a specialty in geography, and, (3) to prepare students for advanced work and professional careers in geography in areas such as university teaching, community and regional planning, resource management, land-use analysis, industrial location analysis, and cartography. The department offers a full range of courses designed to satisfy all three of these objectives.

Undergraduate courses in geography fall into one of the three following groups: (1) **topical** —courses in this group, such as economic geography and environmental climatology, consider the geographical or spatial aspects of specific categories or processes, (2) **regional**—such courses deal with certain sections of the earth (e.g., Europe) and generally afford a broader view of the forces of social, economic, physical, and political interaction, and (3) **techniques** —this group includes courses in aerial photograph interpretation, quantitative methods, cartography, computer mapping, and remote sensing that provide the student with the tools necessary for geographic and related careers.

Requirements for Major

A student majoring in geography may select one of several alternative plans. He may work toward the Bachelor of Arts, the Bachelor of Science teaching, or the Bachelor of Science non-teaching degree. The student's choice of program should be determined by his plans for the future and in close coordination with his adviser.

A. Curriculum—College Core.

Regardless of his degree plan, the student must include the appropriate core curriculum subjects for his degree. The student majoring in geography should elect Geography 103 among his core subjects. Non-geography majors may elect Geography 103, 331, 341, or 350 to meet core requirements—although 103 is recommended for all beginning students.

B. Curriculum—Teaching Requirements.

The student working toward the Bachelor of Science teaching degree must include in his program the courses leading toward the Class A teaching certificate.

C. Curriculum—Department Requirements.

The student wishing to major in geography, regardless of his degree plan, must take thirty-six (36) hours in the Department of Geography. Required of all majors are GHY 210, 223, 224, 331 and 350. In addition, all majors are required to take at least three (3) additional topical courses, one (1) 400-level regional course, and one (1) technique course above the 200-level. The remaining hours for the major are elective within the department. GHY 103 may be considered an elective course when computing total hours for the major.

D. Curriculum—Minor and Electives.

In addition to the core requirements, the certification requirements, and the departmental requirements, the student majoring in geography must also complete the requirements for a minor, preferably in a related field. Courses not used to fulfill any of these requirements are free electives and may be taken in any department of the University.

Requirements for Minor

The student minoring in geography must take twenty-one (21) hours in the department. Recommended for the minor are GHY 103, 210, 223, 331, 341, and 350, plus any 400-level regional course.

DEPARTMENT OF HISTORY (HIS–272)

John Ray Skates, Chairman

J. Anglin, R. Bowers, R. Brent, Ciccarelli, Conklin, Edwards, C. Fike, Gonzales, Guice, Harper, H. Jones, McCarty, McMillen, Mixon, Scarborough, Schmidt, Wallace

The Department of History participates in programs leading to the degrees of the Bachelor of Arts, the Bachelor of Science, the Master of Arts, the Master of Science, the Master of Philosophy, and the Doctor of Philosophy. For the master's and doctorate degrees please consult the **Graduate Bulletin.**

Major Requirements

An undergraduate student majoring in history may elect either the Bachelor of Arts or the Bachelor of Science degree program. He may certify to teach in the field of social studies at the secondary level under either of the above degree plans by taking the necessary education and psychology courses. He should consult with his adviser to determine which degree plan to follow and what education and psychology courses are required.

A. **Curriculum—College Core**

The student working toward any degree must include in his curriculum the required core subjects.

B. **Curriculum—Professional Requirements**

The history major working toward the Bachelor of Science teaching degree with a secondary school license in social studies must include in his program (1) the education courses required for the Class A teaching certificate (education will normally be the minor for a history major seeking a teacher's license); and (2) the following social studies courses either as core or electives: economics (6 hrs.), political science (6 hrs.), geography (6 hrs.), sociology (3 hrs), Mississippi History (3 hrs.).

C. **Curriculum—Departmental Requirements**

The students majoring in history must take thirty-six (36) hours, which regardless of his degree plan, must include History 101, 102, and 140, 141.

Minor Requirements

The student minoring in history should take twenty-one (21) hours in history which should include HIS 101, 102, and 140, 141.

DEPARTMENT OF JOURNALISM (JOU—212)

Birthney Ardoin, Chairman
Bishop, G. Fowler, Frair, Wiggins

The Department of Journalism offers sequences in News-Editorial, Photojournalism, Public Relations, and Journalism Education. The department also participates in an interdisciplinary Advertising Program. These programs are designed to prepare students for careers in news reporting, editing, writing, photography, advertising, public relations, and journalism education.

A student majoring in journalism may elect either the Bachelor of Arts or the Bachelor of Science degree program, but must follow the appropriate core requirements of the College of Liberal Arts.

Typing Skills Necessary

Any student expecting to take courses in journalism should understand that a typing capability is essential. Those students with no typing skills should plan to take typing very early in the program.

All majors and minors are required to do practical work on **THE STUDENT PRINTZ.** Others are invited to participate in the publication of the paper.

Flexibility in the selection of courses outside of the department is encouraged so that students can formulate individualized career goals.

News-Editorial Program

The news-editorial sequence requires a minimum of thirty (30) semester hours, including JOU 102, 103, 311, 313, 402, 403, 450, and 460.

Photojournalism

The photojournalism program requires a minimum of thirty (30) semester hours, including JOU 102, 103, 140, 240, 340, 342, 440, and 460.

Journalism Education

The journalism education program is designed to prepare students academically and professionally to teach journalism and supervise publications on the secondary level and to pursue graduate level study. The journalism major working toward the Bachelor of Science teaching degree must meet general and professional education requirements, including a minor in secondary education, in addition to meeting departmental requirements.

Majors must complete thirty (30) semester hours in journalism, including JOU 102, 103, 140, 311, 313, 331, and 402. To meet the special requirements of teacher certification, the candidate should also meet the special requirements of a major in a related subject matter field, such as English or social science.

Public Relations Program

While flexibility is maintained in all journalism programs to insure individual career goals, the recommended program in public relations listed here crosses several disciplines to provide students with a broad range of instruction.

The general program requires fifty-four (54) hours of the following recommended courses:

Pa 311 Persuasion
PA 315 Speech Composition
PA 410 Business and Industrial Communication
RTF 271 Introduction to Film Production
RTF 302 Broadcast Journalism
RTF 440 Television Production
RTF 472 Writing for Television and Film
JOU 102 Beginning Reporting
JOU 103 Intermediate Reporting
JOU 140 Elements of Photography
JOU 301 Feature Writing
JOU 311 Editing
JOU 312 Design Typography
JOU 313 Newspaper Design and Makeup
JOU 421 Public Relations
JOU 422 Publicity Methods
JOU 425 Business and Professional Publications
JOU 428 Public and Press Relations Management

Suggested Journalism Minor

Students minoring in journalism are required to complete twenty-one (21) semester hours, which should include JOU 102, 103, 311, 313, 402. Other courses should be approved by the chairman of the department.

DEPARTMENT OF MILITARY SCIENCE (MS–276)

Wilfred E. Irish, Jr., Chairman

Calloway, Clark, Cook, Crittenden, Gill, Henry, Hinson, Moffitt, Richards, Senter, D. Walters, Whitworth, B. Williams, Woods

AUTHORIZATION

The University of Southern Mississippi was authorized by the Department of the Army to activate a unit of the Senior Divison Reserve Officers Training Corps (ROTC) on April 3, 1950. The unit was organized June 14, 1950, under the authority of an Act of Congress, June 3, 1916, and subsequent amendments thereto.

MISSION

The mission of the ROTC program is to attract, motivate, and prepare selected university students for commissioning as officers in the United States Army. Academic achievement in the major field of study is of primary importance for students enrolled in the ROTC program.

PROGRAM OF INSTRUCTION

The ROTC program of instruction is divided into two courses, the Basic Course and the Advanced Course. The full program encompasses four years. Students entering into a three-year degree program must contact the Professor of Military Science to arrange to complete the necessary work concurrent with graduation.

The Basic Course consists of two years of instruction and is a prerequisite for entry into the Advanced Course for those students in the four-year program. The Basic Course is introductory in nature and no military obligation is incurred.

The Advanced Course is designed to prepare selected cadets for commissioning in the United States Army. All academic majors are accepted, and the University has waived the requirement for a minor for those students completing the ROTC program. Successful completion of a six-week advanced summer camp and nomination by the Professor of Military Science are required for commissioning. The Advanced Course student is paid a $100.00 per month tax free subsistence allowance during both academic years of the Advanced Course.

TWO-YEAR PROGRAM

A two-year program leading to a commission is available to the following categories of students:

(1) A veteran whose military record is evaluated by the professor of Military Science and determined to have the necessary background for acceptance into the Advanced Course.

(2) Students who did not take the Basic Course during the freshman and sophomore years. These students must successfully complete a six-week Basic Summer Camp prior to applying for the Advanced Course.

EXTRACURRICULAR AND ENRICHMENT ACTIVITIES

ROTC cadets have the opportunity to participate in several professional organizations within the Corps of Cadets. These include the Pershing Rifles (drill team), the Ranger Company, the Rifle Team, the Scabbard & Blade (honorary military society), and the ROTC Flight Training Program.

Field training exercises, orienteering, and adventure training are conducted on a voluntary basis.

ROTC SCHOLARSHIP PROGRAM

The Army ROTC Scholarship Program is designed to offer financial assistance to outstanding young men and women in the four-year ROTC program who are interested in the Army as a career. There are four types of scholarships: Four-year, Three-year, Two-year, and One-year. Each scholarship provides tuition, textbooks, and laboratory fees in addition to paying a $100.00 subsistence allowance per month for the period that the scholarship is in effect.

Four-year scholarships are offered to select young men and women who have graduated from high school or received equivalent credit from an acceptable state or national agency. Applicants must be enrolled in or acceptable for enrollment in the University. Students desiring to apply for the Four-year Scholarship must do so between July 1 and December 1 of the year before the scholarship is to begin. Information and application packets for the Four-year Scholarship may be obtained from the high school counselor or be writing to:

Army ROTC
P. O. Box 12703
Philadelphia, PA 19134

The Department of the Army will select all four-year scholarship recipients.

Three-year scholarships are available to students who have completed their first year of Army ROTC.

Two-year scholarships are available to students who have completed the Basic Course of Military Science and have been accepted for enrollment in the Advanced Course.

One-year scholarships are available to Advanced Course students who have completed their third year of Army ROTC.

Students desiring to apply for the one-year, two-year, or three-year scholarships will do so through the Professor of Military Science at the University. Applicants will be screened by a scholarship committee and selections will be forwarded to the Department of the Army for approval.

DEPARTMENT OF PHILOSOPHY (PHI–284) AND RELIGION (REL–288)

Paul W. Sharkey, Chairman
G. Hales, Nau, Sullivan, F. Wood

The Department of Philosophy and Religion offers programs of study leading to the degrees of Bachelor of Arts and Bachelor of Science with a major in philosophy, a major in philosophy and religion, a minor in philosophy, or a minor in philosophy and religion. In general, each of these programs is designed to help students gain a better understanding of themselves, their world, their own beliefs and those of others.

The major in philosophy offers both breadth and depth in philosophical training for those students interested in pursuing graduate study in philosophy as well as for those majoring in philosophy as a pre-professional program in law, medicine, or other related fields.

The philosophy and religion major offers and encourages breadth in the philosophical and scholarly study of the phenomenon of religion for students interested in pursuing the academic study of religion at the graduate level, or as a pre-professional program for the ministry, religious education, or counseling.

Philosophy

Candidates for the bachelor's degree with a major in philosophy are required to complete a minimum of thirty (30) semester hours in philosophy to include PHI 151, 251, 252, 253, and 356. The remaining fifteen (15) semester hours are to be selected from both humanistic and technically oriented courses in philosophy in consultation with a departmental adviser.

Students wishing to minor in philosophy are required to complete twenty-one (21) semester hours in philosophy including PHI 151, 253, 356, and at least one course in the history of philosophy. The remaining nine (9) semester hours are to be selected from upper division offerings in philosophy in consultation with a departmental adviser.

Philosophy and Religion

Candidates for the bachelor's degree with a major in philosophy and religion are required to complete a minimum of thirty (30) semester hours in philosophy and religion to include either PHI 151 or REL 131 and PHI 352, 372, REL 333, 335. The remaining fifteen (15) semester hours are to be selected in consultation with a departmental adviser.

Students wishing to minor in philosophy and religion are required to complete twenty-one (21) semester hours in philosophy and religion including either PHI 151 or REL 131 and PHI 372 and at least one course in the Eastern and one course in the Western religious traditions. The remaining nine (9) semester hours are to be selected in consultation with a departmental adviser.

DEPARTMENT OF POLITICAL SCIENCE (PS–280)

William H. Hatcher, Chairman
Caudill, Coley, Doumas, D. Landry, Lea, Marquardt,
Parker, Sherry, Wolfe

The Department of Political Science offers a major and minor to prepare students for public service and law school, among other careers; specifically the department offers courses leading to the Bachelor of Arts, Bachelor of Science, Master of Arts, Master of Science, Master of Philosophy, and Doctor of Philosophy degrees.

(1) **Requirements for an Undergraduate Major.**

In addition to PS 101 the political science major must take at least one course from five of the six fields of political science. The remaining twelve hours are electives in political science.

(2) **Requirements for an Undergraduate Minor.**

The department recommends that the minor include courses from at least four of the six fields.

(3) The Six Fields of Political Science.

Political Theory. 320, 420, 421, 425.

American Government and Politics. 301, 302, 303, 401, 402, 404, 406, 407, 408, 409.

International Relations. 330, 331, 431, 432, 434, 435.

Comparative Government. 350, 351, 450, 451, 452, 453, 454, 455, 456, 458.

Public Administration. 470, 471, 472, 473.

Public Law. 380, 480, 481, 482, 483, 485.

(4) Economics 401, and History 300, 412, and 456 and 457 may be elected as political science if approved by the students adivser.

DEPARTMENT OF RADIO, TELEVISION, AND FILM (RTF–220)

James L. Hall, Chairman

Albers, R. Cade, Goff, Mott

The Department of Radio, Television, and Film offers a student an opportunity to study for a career in broadcast journalism, broadcast management and sales, radio-television production, and film. The department also participates in an interdisciplinary advertising program. The Bachelor of Arts and the Bachelor of Science degrees are offered in these areas of concentration.

Federal Communications Commission regulations require that certain employees of radio and televison stations must be licensed by the Commission. There are three classes of licenses: Third Class Radiotelephone License with Broadcast Endorsement; Second Class Radiotelephone License; and First Class Radiotelephone License. To obtain a license, the applicant must appear before the Commission and pass a written examination. Students preparing for the Third Class License examination should enroll in RTF 311, **Radio Production.** Students seeking the Second and First Class licenses should select the Interdisciplinary Minor Program listed below.

The Internship Program provides the student with supervised study and experience in one of these mass media: radio, television, or film. Selected students are given the opportunity to observe and to analyze the methods, techniques, and creative processes of professionals. The scope of the internship may be highly specialized, one in which the student remains with one departmental operation, or it may be varied, in which case the student ranges throughout the professional organization and learns about the functions of several jobs. The student must originate, and submit in writing, a proposal or description of his internship. The prospectus, signed by both a representative of professional management and the Radio, Television, and Film faculty member involved, serves as a contractual agreement and reminder for the student as to the nature of the internship. Students employed by a station or film production company on a part-time basis during the academic year cannot receive academic credit for work they are already doing for pay.

DEPARTMENTAL MAJOR REQUIREMENTS

The major in Radio, Television, and Film consists of thirty-six (36) semester hours of course work. An overall 2.0 grade point average, and a 2.5 grade point average in Radio, Television, and Film courses, is required for graduation.

All Radio, Television, and Film majors are required to take the following courses:

	Hours
RTF 200–Survey of Mass Communication	3
RTF 311–Radio Production	3

RTF 271—Introduction to Film Production 3
RTF 440—Television Production 3

After completing the courses listed above, the student will continue his career preparation by completing twenty-four (24) semester hours in one of the areas of specialization listed below. Additional departmental course work should be considered by each student in consultation with his adviser with an intended goal of the fullest possible career preparation.

BROADCAST JOURNALISM

The Bachelor of Arts degree is suggested for students preparing for careers in Broadcast Journalism.

Major Requirements: **Hours**

RTF 302—Broadcast Journalism 3
RTF 320—Announcing 2
RTF 417—Radio Production Workshop 2
RTF 447—TV Production Workshop 2
RTF 371—Basic Cinematography 3
RTF 472—Writing for TV & Film 3
RTF 360—Broadcast Rules & Regulations 3
RTF 460—Issues in Broadcasting 3
RTF 418—Practicum in Major Field 3

Total 24

Minor Requirements:

Students preparing for careers in Broadcast Journalism should seek a minor in journalism or photojournalism.

BROADCAST MANAGEMENT AND SALES

Major Requirements: **Hours**

RTF 330—Broadcast Advertising 3
RTF 360—Broadcast Rules & Regulations 3
RTF 407—Theories of Mass Communications 3
RTF 416—Radio Station Management 3
RTF 425—Audience Analysis 3
RTF 431—Advertising Management & Sales 3
RTF 460—Issues in Broadcasting 3
RTF 302 or RTF 418
RTF 302—Broadcast Journalism 3
RTF 418—Practicum in Major Field 3

Total 24

Minor Requirements:

Depending on specific career goals, students should seek a minor in business administration, finance, management, marketing, or accounting.

RADIO—TELEVISION PRODUCTION

The curriculum in Radio and Television Production is designed to prepare students for careers in radio stations, television stations, and advertising agencies. The Bachelor of Science degree is suggested for students preparing for careers in Radio and Television Production.

Core Requirements:

1. The mathematics requirements should be met by taking MAT 101.
2. The science requirement should include PHY 105 and 106.

Major Requirements:	Hours
RTF 320—Announcing	2
RTF 417—Radio Production Workshop	2
RTF 447—TV Production Workshop	2
RTF 271—Introduction to Film Production	3
RTF 330—Broadcast Advertising	3
RTF 472—Writing for TV & Film	3
RTF 360—Broadcast Rules & Regulations	3
RTF 371—Basic Cinematography	3
RTF 460—Issues in Broadcasting	3
Total	24

In addition to these course requirements, students must complete 120 clock hours of "on the air" broadcasting experience at WMSU.

Minor Requirements:

Depending on the student's career plans, he should seek a minor in theater, music, or art, or the Interdisciplinary Minor.

INTERDISCIPLINARY MINOR PROGRAM FOR FCC ADVANCED LICENSES

The interdisciplinary minor program is designed to meet the needs of students pursuing Federal Communications Commission radiotelephone license examinations.

Requirements:	Hours
MAT 103—Trigonometry	3
IVE 301—Industrial Arts Electricity	3
IVE 302—Industrial Arts Electronics	3
IVE 303—Industrial Electronics	3
MAT 276—Calculus	3
PHY 327—Electronics	3
PHY 328—Electromics	3
PHY 444—Musical Acoustics	3
Total	24

FILM

The curriculum in Film is designed to prepare students for positions with television stations, film units, motion picture production companies, industrial in-house film units, and federal and state agencies.

Major Requirements:	Hours
RTF 270—Film History and Criticism	3
RTF 371—Basic Cinematography	3
RTF 375—Film Editing	3
RTF 377—Film Production Workshop	3
RTF 440—TV Production	3
RTF 471—Advanced Cinematography	3
RTF 472—Writing for TV & Film	3
RTF—Elective	3
Total	24

Minor Requirements:

Depending on the student's career plans he should seek a minor in English, theatre, art, sociology, or journalism. With concurrance of his adviser, a student may elect an interdisciplinary minor by completing six courses in English, business administration, theatre, art, sociology or journalism.

DEPARTMENT OF SOCIOLOGY (SOC–292) AND ANTHROPOLOGY (ANT–286)

Lawrence L. Bourgeois, Chairman
Burrus, Edwards, Himelstein, Panko, Swann,
Thagard, Turner, Williamson, Winn

The Department of Sociology and Anthropology offers a major and minor with an optional emphasis on social work A minimum of twenty-seven (27) semester hours (beyond SOC 101) is required for a major in General Sociology or the Social Work emphasis. Twenty-one (21) hours are required for a minor in either program.

Core curricula of the University, the College of Liberal Arts, and either the Bachelor of Science or Bachelor of Arts degree programs should be followed with care. Sociology majors who wish to certify to teach on the secondary education level should take note of these requirements in the section of the catalog dealing with teacher training. It should be noted that a student may certify to teach even though enrolled in the College of Liberal Arts.

Sociology majors will complete a minor of twenty-one (21) hours in another field of their choice. Courses not needed to fulfill major, minor, or core requirements are free electives and may be taken in any department of the University.

Course Requirements and Information

A. Sociology 101 is a prerequisite to all other course offerings.
B. All sociology majors (General and Social Work emphasis) must take the following courses: SOC 101, 310 or 311, 460, 480, 481 or 482.
   1. Students pursuing the General Sociology major must also take SOC 461. The remaining twelve (12) hours may be selected from any of the departmental offerings with the exception of the Social Work courses.
   2. Students choosing the Social Work emphasis should also take SOC 230, 330, and 331.
C. Students preparing for careers in social work may obtain within the department both class room and practical experience in that area as well as a foundation in behavioral science. An adviser will help in the selection of courses from other disciplines which will round out the students preparation for performing social work services.

ANTHROPOLOGY

A major in anthropology requires a minimum of twenty-seven (27) semester hours in anthropology including ANT 101, 212, 301, 304, and 413.

A minor requires a minimum of twenty-one (21) semester hours including ANT 101 and 413.

DEPARTMENT OF SPEECH AND HEARING SCIENCES (SHS–269)

Robert C. Rhodes, Chairman
DuBard, Elward, H. Fike, Lehrer, McClelland, Terrio, Schaub, Thomas

The Department of Speech and Hearing Sciences is concerned with the body of knowledge and scientific study that pertains to both normal and abnormal speech, hearing, and language. The department provides the environment in which information in this area can be advanced effectively and knowledge can be disseminated.

Bachelor of Arts teaching degrees and Bachelor of Science teaching degrees are offered by the department. At the undergraduate level, the Bachelor of Arts or the Bachelor of Science degree includes a number of related disciplines including Speech Pathology, Audiology, Language Disorders, and Education of the Hearing Impaired. Specialization in one or more of these specific areas is undertaken at the graduate level. For information concerning master's or doctoral degrees, consult the **Graduate Bulletin.**

The Bachelor of Arts or Bachelor of Science teaching degree is required of students who wish to meet the certification requirements of the Mississippi State Office of Special Education in speech and hearing.

Requirements for Major

Students seeking the Bachelor of Arts or Bachelor of Science teaching degree in Speech Pathology, Language Disorders, or Audiology are responsible for fulfilling the College of Liberal Arts requirements in addition to the specific requirements listed below:

SHS 201, 202, 211, 221, 401, 402, 403, 411, 412, 413, 414, 421, 431, 432, and 433 or 439.

SPE 310 (1 hour), 311 (1 hour), 312 (6 hours), 400.

EPY 370, 372, and 374.

Enrollment in SPE 310, 311, or 312 is contingent upon permission of the instructor.

Students interested in seeking training in Education of the Hearing Impaired are asked to contact the director of Education of the Hearing Impaired to plan their programs.

The USM Speech and Hearing Clinic located in the Honor House and the School for Children with Language Disorders in the George Hurst Building are administered by the Department of Speech and Hearing Sciences to provide remedial services, educational and training experiences for students, and settings for clinical research. The Acoustics Laboratory in the Honor House is operated by the department for the purpose of conducting pure and applied research dealing with speech and auditory processes.

The department has working agreements with several off-campus clinical facilities around the state for clinical practicum experience.

SCHOOL OF NURSING

Elizabeth C. Harkins, Dean
Bain, Denkler,

PURPOSE

The primary purpose of the undergraduate program in nursing is to provide the student with a sound preparation for nursing practice. The program of baccalaureate studies offers broad preparation in general education, as well as education for the professional practice of nursing. Courses in the liberal arts and humanities, the sciences and the professional components are selected to prepare the student to assume effectively his role as an individual, as a citizen, and as a professional practitioner. The primary purpose of the continuing education program in nursing is to improve nursing by offering opportunities for nurses to expand their knowledge and enlarge their sphere of interest through planned activities.

HISTORY

Following a year of planning and curriculum development, the first students were admitted to the School of Nursing in September, 1967. The School of Nursing received National League for Nursing accreditation in 1969. The first Bachelor of Science in Nursing degrees were conferred in May, 1969.

ACCREDITATION

The School of Nursing program is accredited by the National League for Nursing. The School is approved by the Board of Trustees of State Institutions of Higher Learning and is a member of the National League for Nursing.

DEPARTMENT OF NURSING–BACCALAUREATE STUDIES (NSG–070)

Louise M. Carlton, Chairman

Bates, Bender, M. Bryant, Bryson, M. Carr, Dubuisson, M. Fowler, S. Freeman, Gipson, Hawkins, J. Herrington, T. Hildman, Hobson, Huch, T. Hughes, B. Johnson, Lester, McDowell, McHenry, Moorer, Nayak, D. Porter, Rater, Richeson, M. Sisemore, Stovall

The Department of Nursing–Baccalaureate Studies offers a program of study leading to the degree of Bachelor of Science in Nursing. Upon completion of the program, the graduate is prepared to function as a professional nurse practitioner in a variety of settings.

ADMISSION

Applicants for admission to the Baccalaureate Program of the School of Nursing must fulfill the general University requirements as described in the Admission Section of the Bulletin. In addition, the applicant must meet the progression criteria of the School of Nursing (see Promotion Policies).

Individual advisement is provided for all students. A special review and program plan is prepared for students with advanced standing.

PROMOTION POLICIES

Students must (1) maintain a 2.0 grade point average in the natural and behavioral science courses–biology, chemistry, psychology and sociology; and (2) have earned a 2.3 grade point average at the completion of the Level II nursing courses. A 2.3 grade point average in nursing courses is required for graduation.

STUDENT ADVISEMENT

The Department of Baccalaureate Studies faculty are responsible for academic counseling of all students enrolled in the program. Each student admitted to the program will be assigned an adviser. The adviser will assist the student in planning a program of study toward the degree, approve his schedule each quarter, provide counsel, and sign his application for degree.

FINANCIAL AID

There are scholarship and loan funds available exclusively to students enrolled in the School of Nursing. Nursing students are also eligible to apply for assistance through other resources provided to students enrolled in the University. All applications for assistance should be forwarded to the Director of Student Aid and Scholarships.

EXPENSES

The general fees and expenses are the same for nursing students as for other University students. Additional expenses incurred by nursing students such as uniforms, books, insurance, student nurse organization fees, etc., are estimated as follows:

1st Year	2nd Year	3rd Year
$100.00	$75.00	$75.00

Travel: Students are responsible for arranging transportation to off-campus hospitals and other agencies which constitute part of the program.

CURRICULUM

The program of study for the Bachelor of Science in Nursing includes specified requirements in the physical and biological sciences, in the social and behavioral sciences, and in the humanities. These courses are selected and placed for their foundational and supportive contributions to the study of nursing. The clinical laboratory classes are conducted in demonstration rooms and in settings where nursing care is needed.

The curriculum in nursing is sequential; progression depends on successful completion of required courses in the preceding year.

Registered nurses may establish by examination a maximum of twenty-one (21) hours of credit in nursing. (See also Challenge Examinations.)

A student majoring in nursing must complete 130 hours including fifty (50) hours in nursing, the major, eighteen (18) hours in a selected minor, and fifty-seven (57) hours required by the cores of the University and the School of Nursing. Upon completion of this program of study, the student is eligible to write the examination for licensure in the State of Mississippi.

First Year

	Hours
NSG 120, 121, and 122 or 150*	6
BIO 220, 221, and 222	9
CHE 101,** 251, and 252	9
ENG 101 and 102	6
MAT 199, 101, or 112	3
Physical Education or ROTC/AFROTC	2
PSY 110	3
PA 111	3
SOC 101	3
	44

*May be taken in lieu of NSG 120, 121, 122 if specified criteria are met.
**If no high school chemistry, CHE 100 is prerequisite.

Second Year

	Hours
NSG 301, 302, 303, 305, 306	15
ANT 211 or 212	3
MIC 401 and 402	6
PSY 375 or EPY 370 and EPY 372; PSY 455 or SOC 450; PSY 360 or SOC 460	3-12
PA 330	3
SOC 314; SOC 450 or PSY 455; SOC 460 or PSY 360	3-9
Humanities Electives–2 Courses	6
	45-48

Third Year

	Hours
NSG 410, 420, 430, 440, 442, 450	29
MGT 360	3
GEN 451	3
PSY 436	3
	38

NURSING–CONTINUING EDUCATION STUDIES

Elizabeth G. Benjamin, Chairman

Graham, McGrew, Sommers,

The Continuing Education Studies of the School of Nursing offers credit and non-credit courses, workshops, and conferences for registered nurses throughout the State of Mississippi. The purpose of the program is to increase the quality of nursing care by providing means for nurses to update nursing knowledge and to acquire new knowledge and skill.

NOTES

COLLEGE OF SCIENCE AND TECHNOLOGY

Shelby F. Thames, Dean
William G. Brundage, Assistant to Dean

The College of Science and Technology provides the student training in all of the classical fields of science, several contemporary multidisciplinary areas, and a host of "career-oriented" technology degree programs.

The College of Science and Technology is organized into ten departments and the Center for Technology Studies. The departments include Biology, Chemistry, Computer Science and Statistics, Geology, Mathematics, Medical Technology, Microbiology, Physics and Astronomy, Polymer Science, and Science Education.

The concept of "career-oriented" training is stressed within the ten departments and the associated degree programs in Building Construction Technology, Environmental Technology, Industrial Technology, Mechanical Technology, Computer Technology, Food Science and Technology, Plastics Technology, Architectural Technology, the Allied Health Sciences, the pre-professional programs, the pre-engineering program, and the Institute of Genetics.

The College shares, with the College of Education and Psychology, joint responsibility for the Department of Science Education, embracing a sequence of courses titled Fundamentals of Science, and offering a major in science education for teachers.

A student wishing to obtain either a Bachelor of Science or Bachelor of Arts degree from within the College of Science and Technology must complete the following College of Science and Technology requirements:

	Hours
English 101, 102, and 333	9
History	6
Science (includes Fundamentals of Science) fifteen hours; a minimum of 9 must be in laboratory sciences	15
Mathematics (must be above MAT 100)	9
Three hours from the following areas: religion, literature, allied arts, foreign, language, philosophy	3
Nine hours from the following areas, with no more than three hours from any one area: political science, geography, sociology, psychology, economics	9
Physical Education or ROTC/AFROTC	2-3
Foreign language may be required at the option of the department.	

The student seeking a Bachelor of Arts degree must complete three (3) additional hours of English and meet the following requirement:

*Foreign Language	6-9

*Students who have two years of the same language in high school and who make satisfactory placement test scores may meet the language requirement by completing six semester hours at the 200-level or above.

INSTITUTE OF GENETICS

Karen M. Yarbrough, Director
Peebles, Stoddard

The Institute of Genetics provides facilities for undergraduate and graduate education in genetics and services to University personnel and students as well as families throughout the community and region. Information regarding academic requirements may be obtained from the **Undergraduate Bulletin** or the **Graduate Bulletin** under the Department of Microbiology.

Members of the Institute's staff operate within the framework of the Center for Health Related Sciences in order to provide coordinated, comprehensive services. The Institute's services include chromosomal culturing and karyotyping, sex chromatin tests, dermatoglyphic studies and genetic counseling. These services are available at nominal fees on a referral basis or by applying directly to the Institute of Genetics.

PRE-PROFESSIONAL CURRICULA

B. J. Martin, Director

The Pre-Professional Curricula for health related sciences at the University of Southern Mississippi provide quality pre-professional training for students who plan to enter schools of medicine, dentistry, veterinary medicine, pharmacy, physical therapy, optometry, dental hygiene, and medical records administration.

RECOMMENDED PROGRAM FOR PRE-MEDICAL RECORDS ADMINISTRATION

Donald Norris, Adviser

The pre-professional curriculum outlined below prepares students for the two-year professional program within the Department of Medical Records Administration of the School of Health Related Professions, University of Mississippi Medical Center. This curriculum surpasses minimal curricular entrance requirements of the professional program, for which additional information appears in the Bulletin of the Medical Center. Acceptance into the professional program is dependent upon the degree of preparation and level of academic achievement of candidates, is highly competitive, and is administered solely by the University of Mississippi. Student completing the professional program receive the B.S. degree in medical records administration from the University of Mississippi.

Required Courses	**Hours**
BIO 101 Principles of Animal Biology	4
BIO 102 Diversity of Plant Life	4
BIO 202 Vertebrate Biology	4
MIC 401 Microorganisms in Health and Disease	3
CHE 100 Introductory Chemistry	3
MAT 101 College Algebra	3
MAT 112 Applied Algebra for Problem Solving	3
CSS 100 Introduction to Computing	3
CSS 211 Statistical Methods	3
ENG 101 Language	3
ENG 102 Literature	3
ENG 201 Fiction	3
ENG 332 Expository Prose	3
PSY 110 General Psychology	3
PSY 251 Applied Psychology	3
PA 111 Oral Communication	3
BED 300 Business Writing	3

Suggested Courses

FL 151 Latin	3
FL 152 Latin	3
BED 352 Filing Systems and Record Management	2
BED 450 Office Appliances	3
SOC 101 Introduction to Sociology	3
BED 101 Elementary Typewriting (if needed)	3

Elected Courses

A student should elect any additional courses needed to fulfill the sixty-five (65) semester-hour entrance requirement of the Department of Medical Records Administration, University of Mississippi Medical Center.

RECOMMENDED PRE-MEDICAL AND PRE-DENTAL PROGRAM

Advisers: Griffin, Hawkridge, Martin, Scheetz

Course requirements for admission to most medical and dental schools are very similar. The program outlined below provides a basic plan for meeting the requirements

for medical or dental school and also for earning a Bachelor of Science or Bachelor of Arts degree. The courses which are in black indicate minimum course requirements for admission to medical or dental school.

Because of the keen competition for admission to medical or dental school, most students earn a degree prior to entering professional school. However, it is possible for students to gain admission to medical school after completing the minimum course requirements plus enough additional approved electives for a total of 90 semester hours. Students entering medical school under this plan may be awarded a bachelor's degree in either pre-medical or pre-dental science by the University of Southern Mississippi upon successful completion of the first year of medical or dental school provided that all hour and quality point requirements for pre-professional degrees listed under "General Degree Requirements" in this **Bulletin** are met.

Each student will be assigned an adviser whose function will be to assist in planning an individualized program of study that provides optimal preparation for professional school and also meets the needs and interests of each student.

YEAR	FALL	WINTER	SPRING
1	**BIO 101**	**BIO 102**	**BIO 202**
	*** CHE 101**	**CHE 102**	**CHE 103**
	**** MAT 101**	**ENG 101**	**ENG 102**
	Core/Elect	**MAT 103**	**Core/Elect**
2	**CHE 351**	**CHE 352**	**CHE 353**
	PHY 101	**PHY 102**	**PHY 103**
	HIS 101/140	**HIS 102/141**	**ENG 300**
	Core/Elect	**Core/Elect**	**Core/Elect**
	(MCAT or DAT should be taken after completing second year)		
3	**Three additional advanced science courses (300+) and enough Core/Electives for a total of 90 hours.**		
4	**A degree applicant must complete 128 semester hours including core, major, and minor requirements.**		

* CHE 100 recommended when chemistry background is inadequate.
** Students with no high school algebra should take MAT 199.

RECOMMENDED PRE-VETERINARY MEDICINE PROGRAM

B. J. Martin, Adviser

Currently, pre-veterinary medicine students from Mississippi are accepted at schools of veterinary medicine at Auburn University and at Louisiana State University through a plan sponsored by the Southern Regional Education Board and through a similar plan at the School of Veterinary Medicine, Tuskegee Institute, Alabama. Minimum academic requirements for admission to these schools vary only slightly and students should plan to complete at least eighty-five (85) semester hours of acceptable college credit prior to admission to professional school. Due to the keen competition for admission, virtually no one is ever admitted with only the minimum requirements; therefore, students should plan to earn a bachelor's degree.

Students following the plan outlined below will meet requirements for entering veterinary school and also earn a bachelor's degree. According to this plan, it is recommended that students transfer to a land-grant institution their fourth (4th) year in order to take certain courses normally available only at institutions of this type. Upon completion of the senior year, and transfer of credits back to the University of Southern Mississippi students may be awarded a degree if all general degree requirements are met with the exception of the requirement that the last twelve (12) semester hours of work must be taken in residence on the campus.

YEAR	FALL	WINTER	SPRING
1	**BIO 101** **CHE 101** **ENG 101** **MAT 101**	**BIO 102** **CHE 102** **ENG 102** **MAT 103**	**BIO 202** **CHE 103** **PS 101** **MAT 171**
2	**CHE 351** **MAT 276** **PHY 101** **HIS 101**	**CHE 352** **PA 111** **PHY 102** **HIS 102**	**CHE 353** **BIO 255** **PHY 103** **MIC 101**
3	**ENG 333** **BIO 436** **Additional core, elective, and major courses to complete required 128 total semester hours including work taken senior year. Program must include 45 hours numbered over 300 and 2-3 hours Physical Education or ROTC/AFROTC.**		
4	**(The Animal Nutrition courses are required and must be taken at an institution where the courses are approved by the Southern Regional Education Board for Veterinary Medicine)** **Animal Nutrition 6** **Genetics 3** **Foreign Language 6** **Survey of Agriculture 1** **Agricultural Economics 3** **Electives 9**		

RECOMMENDED PRE-PHARMACY PROGRAM

R. Scheetz, Adviser

Requirements for admission to most schools of pharmacy are two years of pre-pharmacy training. Students should obtain a copy of the catalog of the school of pharmacy where they plan to attend and with their academic adviser plan a course of study to meet their individual needs. The program outlined below meets admission requirements for the University of Mississippi School of Pharmacy.

Freshman

	Hours
BIO 101, 102, 202	12
CHE 101, 102, 103	9
ENG 101, 102	6
MAT 101, 103	6
Electives	3
	36

Sophomore

CHE 351, 352, 353	9
PHY 101, 102, 103	9
ECO 100	3
PSY 110	3
SOC 101	3
MIC 101	3
Elective	3
	33

RECOMMENDED PRE-PHYSICAL THERAPY PROGRAM

A. Griffin, Adviser

Students following the program outlined below will meet the course requirements for entering the Physical Therapy Program, University of Mississippi Medical Center, Jackson, Mississippi. Students planning to enter programs at other locations should consult their adviser.

Freshman Year	Hours	Sophomore Year	Hours
ENG 101	3	PSY 110, 375	6
PA 111	3	SOC 101	3
* CHE 101, 102, 103	9	PHI 151	3
** MAT 101, 103	6	BIO 321	3
BIO 101	4	*** PHY 101, 102, 103	9
HIS 101	3	MIC 101	3
Humanities Elective	3	Elective	3
Total	31	Total	30

* CHE 100 is recommended when chemistry background is weak.
** MAT 199 is recommended for students with no high school algebra.
*** MAT 103 is a prerequisite for PHY 101.

RECOMMENDED PRE-OPTOMETRY PROGRAM

W. Pye, Adviser

Students planning to apply to a school of opometry are required to complete two academic years (60 semester hours) of university work. This is a general program; individual schools vary in their requirements. Organic chemistry is recommended in some programs, required in others. The pre-optometry student is encouraged to write to those schools of interest early in the program to tailor his/her program according to specific requirements of each school.

YEAR	FALL	WINTER	SPRING
1	**ENG 101**	**ENG 102**	**MIC 101**
	MAT 101	**MAT 103**	**PSY 110**
	BIO 101	**BIO 102**	**Elective**
	CHE 101	**CHE 102**	**CHE 103**
2	**PHY 101**	**PHY 102**	**PHY 103**
	CHE 351	**CHE 352**	**CHE 353**
	HIS 140	**HIS 141**	**Elective**
	Elective	**PS 101**	**PS 220**

RECOMMENDED PRE-DENTAL HYGIENE PROGRAM

D. Norris, Adviser

YEAR	FALL	WINTER	SPRING
1	**ENG 101**	**ENG 102**	**PSY 110**
	SOC 101	**PA 111**	**BIO 101**
	*** CHE 101**	**CHE 102**	**Elective**
	Elective	**Elective**	**Elective**
2, 3	**Taken in residence in a Dental Hygiene Program**		

* BIO 101 may be taken before CHE 101 and 102. The indicated required courses may be taken in any order.
NOTE: The Dental Hygiene Aptitude Test is required for admission to Dental Hygiene Programs. It is offered in November, February, and May of each year; however, the results of the May examination are not usually considered for the class entering in September of that year. See your adviser for application forms for the DHAT early.

RECOMMENDED PRE-ENGINEERING PROGRAM

Adviser: M. Kavanaugh

The following curricula are set up to meet the requirements for admission to most engineering schools. The student should note that in each of the pre-engineering programs there are several electives allowed.

A catalog from the selected engineering school should be consulted before the elective courses are chosen and the physical education or ROTC option for the first year program is made.

Courses that are acceptable at many engineering schools are English 200, 201, 202; Economics 100; Public Address 111; Philosophy 151; Sociology 101; Psychology 210; History 101 and 102 or 140 and 141.

FRESHMAN-PROGRAM FOR ALL ENGINEERS

Fall Qtr.	Sem. Hrs.	Winter Qtr.	Sem. Hrs.	Spring Qtr.	Sem. Hrs.
MAT 171	3	MAT 276	3	MAT 277	3
ENG 101	3	ENG 102	3	CHE 103	3
CHE 101	3	CHE 102	3	ENG 332	3
IVE 121	3	IVE 122	3	ELECTIVE	3
ROTC/AFROTC or PED	1	ROTC/AFROTC or PED	1	ROTC/AFROTC or PED	1
	13		13		13

CIVIL ENGINEERING PROGRAM–SECOND YEAR

Fall Qtr.	Sem. Hrs.	Winter Qtr.	Sem. Hrs.	Spring Qtr.	Sem. Hrs.
MAT 378	3	MAT 379	3	MAT 405	3
PHY 201	3	PHY 202	3	PHY 203	3
IVE 325	3	ELECTIVE	6	GLY 101	3
ELECTIVE	3			ELECTIVE	3
	12		12		12

CHEMICAL ENGINEERING PROGRAM–SECOND YEAR

Fall Qtr.	Sem. Hrs.	Winter Qtr.	Sem. Hrs.	Spring Qtr.	Sem. Hrs.
MAT 378	3	MAT 379	3	MAT 405	3
PHY 201	3	PHY 202	3	PHY 203	3
CHE 311	4	CHE 312	4	CHE 411	4
IVE 325	3	ELECTIVE	3	ELECTIVE	3
	13		13		13

ELECTRICAL AND MECHANICAL ENGINEERING PROGRAM–SECOND YEAR

Fall Qtr.	Sem. Hrs.	Winter Qtr.	Sem. Hrs.	Spring Qtr.	Sem. Hrs.
ELECTIVE	3	MAT 379	3	MAT 405	3
MAT 378	3	PHY 202	3	PHY 203	3
PHY 201	3	ELECTIVES	6	IVE 325	3
IVE 116	3			ELECTIVE	3
	12		12		12

CENTER FOR TECHNOLOGICAL STUDIES

Kenneth Woolf, Director

W. Baldwin, Boutwell, C. Brent, Kavanaugh, McGowen, Marchman, Mathis, R. Pierce, Salinas, J. W. Young.

The Center for Technological Studies offers programs in the following areas:
Architectural Technology
Construction Technology
Environmental Technology with major areas of emphasis in:
Environmental Health–Industrial Hygiene Technology
Environmental Health–Sanitation Technology
Food Science and Technology
Industrial Technology with major areas of emphasis in:
Electrical Power Systems Technology
Electronics Technology
Mechanical Technology

Technological programs in Computer Technology, Medical Technology, and Plastics Technology are offered through the Department of Computer Science and Statistics, the Department of Medical Technology, and the Department of Polymer Science, respectively.

ARCHITECTURAL TECHNOLOGY CURRICULUM

Ysidro Salinas, Coordinator

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts, (must include ARE 207, PA 111)	6	
Social Science (must include PS 101, ECO 100, SOC 101)	9	
* Mathematics (MAT 236)	3	
Science (must include PHY 105)	7	
Physical Education or Approved Substitute	2	
	33	33

Architectural Technology Competency Core

Applications of Calculus for Technology, MAT 237	3	
Electrical Systems, ACT 304	3	
Mechanical Systems, ACT 305	3	
DESIGN I, ACT 351	3	
Design II, ACT 352	3	
Design III, ACT 353	3	
Design IV, ACT 451	3	
Design V, ACT 452	3	
Design VI, ACT 453	3	
Statics, ACT 375	3	
Strength of Materials, ACT 376	3	
Structural Design, ACT 377	3	
Architectural Landscaping, ACT 358	3	
Architectural Rendering, ACT 393	3	
Surveying, ACT 395	3	
** Site Development, BCT 371	3	
** Construction Detailing, BCT 372	3	
** Construction Methods, BCT 373	3	
	54	54

Architectural Technology Operations Core

Financial Concepts in Industry, FIN 301	3	
Quantity Surveying, BCT 378	3	
Construction Cost Analysis, BCT 379	3	
Office Practice and Specifications, ACT 394	3	
Construction Labor, BCT 436	3	
Technical Writing, ENG 333	3	
	18	18

Elective Sequence

Selected courses of specialization approved by adviser	18	18

Senior Project

Senior Project, TEC 400	3	
Senior Project, TEC 401	3	
	6	6
Total		129

* Students without advanced mathematics courses in high school must enroll in MAT 131 and 133 prior to this course.
** Students without high school drafting must enroll in TEC 348 prior to these courses.

CONSTRUCTION TECHNOLOGY CURRICULUM

James W. Young, Coordinator

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts	6	
Social Science (must include ECO 100)	9	
* Mathematics, MAT 133	3	
Science (PHY 105, CHE 101)	7	
Physical Education or Approved Substitute	2	
	33	33

Construction Technology Competency Core

Introduction to Calculus for Technology, MAT 236	3	
Graphics, TEC 348	3	
Introduction to Programming Laboratory, CSS 240	3	
Geology for Construction, GLY 105	3	
Electrical Systems, ACT 304	3	
Mechanical Systems, ACT 305	3	
Construction Materials, BCT 335	3	
Site Development, BCT 371	3	
Construction Detailing, BCT 372	3	
Construction Methods, BCT 373	3	
Statics, ACT 375	3	
Strength of Materials, ACT 376	3	
Structural Design, ACT 377	3	
Surveying, ACT 395	3	
	42	42

Construction Technology Operations Core

Legal Environment of Business, FIN 295	3	
Financial Concepts in Industry, FIN 301	3	
Quantity Surveying, BCT 378	3	
Construction Cost Analysis, BCT 379	3	
Construction Organization, BCT 385	3	
Technical Writing, ENG 333	3	
Construction Planning and Scheduling, BCT 435	3	
Codes and Specifications, BCT 383	3	
Construction Safety, BCT 386	3	
Construction Labor, BCT 436	3	
Construction Quality Control, BCT 437	3	
	33	33
Elective Sequence		
Selected courses of specialization	18	18
Senior Project		
Senior Project, TEC 400	3	
Senior Project, TEC 401	3	
	6	6
Total		132

* Students without advanced mathematics courses in high school must enroll in MAT 131 prior to this course.

COMPUTER TECHNOLOGY

See Department of Computer Science and Statistics, page 188.

ENVIRONMENTAL TECHNOLOGY CURRICULUM

Charles Brent, Coordinator

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts	6	
Social Sciences	9	
Mathematics 236	3	
Science (CHE 101, PHY 105)	7	
Physical Education or Approved Substitute	2	
	33	33
Environmental Technology Competency Core		
Environmental Problems, ESC 105, 205	4	
Principles of Animal Biology, BIO 101	4	
Diversity of Plant Life, BIO 102	4	
General Chemistry, CHE 102, 103	6	
General Microbiology, MIC 101	3	
Physical Geology, GLY 101, 102	4	
Applied Physics, PHY 106	4	
Introduction to Computer Programming, CSS 240	3	
Graphics, TEC 348	3	
Man in His Environment, ESC 301	3	
Elementary Organic Chemistry, CHE 251, 252	6	
Analytical Chemistry, CHE 311, 312	8	
Microbiology of Water and Sewage, MIC 471	3	
Environmental Impact Analysis, ESC 305	1	

Ecology I, BIO 461	3	
Limnology, BIO 466	3	
Environmental Climatology, GHY 425	3	
Pollution Detection-Water, ESC 401	4	
Pollution Detection-Air, ESC 402	4	
Air, Water and Solid Waste Management, ESC 403	4	
Electronics for Scientists, ESC 411	4	
	81	81

Environmental Technology Operations Core

Financial Concepts in Industry, FIN 301	3	
Industrial Automation, INT 406	3	
Personnel in Technology, INT 407	3	
Innovation in Technology, INT 408	3	
Technical Writing, ENG 333	3	
	15	15

Elective Sequence

Selected courses of specialization	9	9

Senior Project

Senior Project, TEC 400	3	3
Total		141

ENVIRONMENTAL HEALTH-INDUSTRIAL HYGIENE TECHNOLOGY EMPHASIS

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts	6	
Social Sciences (PS 101, GHY 103, ECO 255)	9	
Mathematics-Introduction to Calculus for Technology, MAT 236	3	
Science (CHE 101, PHY 105)	7	
Physical Education or Approved Substitute	2	
	33	33

Industrial Hygiene Technology Competency Core

Environmental Problems, ESC 105, 205	4	
Principles of Animal Biology, BIO 101	3	
General Chemistry, CHE 102, 103	6	
General Microbiology, MIC 101	3	
Applied Physics, PHY 106	4	
Introduction to Computer Programming, CSS 240	3	
Human Anatomy and Physiology, BIO 220, 221	6	
Introduction to Audiology, SHS 221	3	
Applications of Calculus for Technology, MAT 237	3	
Chemical Safety, CHE 300	2	
Graphics, TEC 348	3	
Organic Chemistry, CHE 351, 352, 353	12	
Microbiology of Water and Sewage, MIC 371	3	
Physics of the Atom, PHY 361	3	
Pollution Detection–Air ESC 402	4	
Air, Water, and Solid Waste Management, ESC 403	4	
Electronics for Scientists, ESC 411	4	
Principles of Industrial Hygiene, ESC 431	4	
	74	74

Industrial Hygiene Technology Operations Core

Safety Management, MGT 386	3	
Financial Concepts in Industry, FIN 301	3	
Personnel in Technology, INT 407	3	
Innovation in Technology, INT 408	3	
Technical Writing, ENG 333	3	
	15	15
Elective Sequence		
Selected courses of Specialization	10	10
Senior Project		
Senior Project, TEC 400	3	3
Total		135

ENVIRONMENTAL HEALTH-SANITATION TECHNOLOGY EMPHASIS

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts	6	
Social Sciences (include SOC 103, PSY 110, PS 101)	9	
Mathematics, MAT 236	3	
Science (include CHE 101, PHY 105)	7	
Physical Education or Approved Substitute	2	
	33	33

Sanitation Technology Competency Core

Personal Health, HTH 101	3	
Environmental Problems, ESC 105, 205	2	
Principles of Animal Biology, BIO 101	4	
Diversity of Plant Life, BIO 102	4	
General Chemistry, CHE 102, 103	6	
General Microbiology, MIC 101	3	
Statistical Methods, CSS 211, 212	6	
Introduction to Computer Programming, CSS 240	3	
Elementary Organic Chemistry, CHE 251, 252	6	
Elementary Biochemistry, CHE 321	3	
Analytical Chemistry, CHE 311, 312	8	
Man in His Environment, ESC 301	3	
Environmental Impact Analysis, ESC 305	1	
Advanced General Microbiology, MIC 301	3	
Advanced Microbiological Techniques, MIC 308	3	
Food Microbiology, MIC 461	3	
Microbiology of Water and Sewage, MIC 471	3	
Human Protozoology, BIO 424	3	
Medical Entomology, BIO 426	3	
Ecology of Parasitic and Vector Borne Diseases, BIO 470	3	
Principles of Environmental Health, HTH 330	3	
Pollution Detection–Water, ESC 401	4	
Air, Water, and Solid Waste Management, ESC 403	4	
Principles of Industrial Hygiene, ESC 431	4	
Food and Drug Laws, FST 410	3	
	91	91

Sanitation Technology Operations Core

Principles of Economics, ECO 255	3	
Safety Management, MGT 386	3	
Public Address, PA 111	3	
Technical Writing, ENG 333	3	
Public Health Administration, HTH (to be developed)	3	
	15	15
Senior Project		
Field Practicum, HTH (to be developed)	2	2
Total		141

FOOD SCIENCE AND TECHNOLOGY

Eduardo Angel, Coordinator

	Hours
English 101, 102, 333	9
History	3
Mathematics, MAT 103, 276, 277	9
Statistics, CSS 211	3
Economics, 200	3
PED or ROTC/AFROTC	2
Geography, Sociology, Psychology, Philosophy, Allied Arts, (maximum of 3 hours in any one field)	6
Food and Nutrition, F&N 460	3
Marketing, MKT 300	3
Management, MGT 454	3
Biology 101, 102	6
Chemistry 101, 102, 103, 311, 312, 321, 351, 352	26
Microbiology 101, 301, 471	9
Food Microbiology, MIC 461	3
Dairy Microbiology, MIC 462	3
Production Technology, INT 405	3
Physics 105, 106	6
Intro. to Food Science, FST 101	3
Food Process Engineering, FST 405	3
Food Science I, FST 310	3
Food Science II, FST 311	3
Food and Drug Laws–Standards and Regulations, FST 410	3
Food Analysis I, FST 450	4
Food Analysis II, FST 451	4
Food Processing Technology I, FST 350	4
Food Processing Technology II, FST 351	4
Seminar, FST 489	1
Electives	3
Total	135

INDUSTRIAL TECHNOLOGY CURRICULUM

Joe Moore, Coordinator

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts	6	
Social Science	9	
Mathematics, MAT 131	3	
Science (must include PHY 105)	7	
Physical Education or Approved Substitute	2	
	33	33

Industrial Technology Competency Core

Trigonometry for Technology, MAT 133	3	
Introduction to Calculus for Technology, MAT 236	3	
Electronics, ESC 411	4	
Graphics, TEC 348	3	
Production Graphics, TEC 349	3	
Elements of Design, TEC 350	3	
Structure of Materials, PSC 330	3	
Industrial Instrumentation, INT 308	3	
Introduction to Programming Laboratory, CSS 240	3	
Manufacturing Processes, INT 300	3	
Statics, ACT 375	3	
Strength of Materials, ACT 376	3	
Alternate Energy Systems, INT 440	3	
Power Plants, INT 443	3	
	43	43

Industrial Technology Operations Core

Financial Concepts in Industry, FIN 301	3	
Industrial Management, MGT 362	3	
Industrial Hygiene, ESC 431	4	
Production and Quality Control, MGT 466	3	
Legal Environment of Business, FIN 295	3	
Statistics, CSS 211	3	
Production Technology, INT 405	3	
Industrial Automation, INT 406	3	
Personnel in Technology, INT 407	3	
Innovation in Technology, INT 408	3	
Plant Layout, INT 409	3	
Technical Writing, ENG 333	3	
	37	37

Elective Sequence

Selected courses of specialization approved by adviser	18	18

Senior Project

Senior Project, TEC 400	3	
Senior Project, TEC 401	3	
	6	6
Total		137

ELECTRICAL POWER SYSTEMS TECHNOLOGY CURRICULUM

(An Industrial Technology Emphasis Area)

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts	6	
Social Sciences	9	
Mathematics (MAT 131)	3	
Science (must include PHY 105)	7	
Physical Education or Approved Substitute	2	
	33	33

Electronics Technology Competency Core

Trigonometry for Technology, MAT 133	3	
Introduction to Calculus for Technology, MAT 236	3	
Applications of Calculus for Technology, MAT 237	3	
Applied Physics, PHY 106	4	
Thermodynamics, PHY 331	3	
Network Analysis, INT 312	4	
Industrial Instrumentation, INT 308	3	
Electrical Power System Instrumentation, INT 306	3	
Graphics, TEC 348	3	
Production Graphics, TEC 349	3	
Computer Science (must include CSS 240)	6	
Structure of Materials, PSC 330	3	
Statics, ACT 375	3	
Strength of Materials, ACT 376	3	
Electrical Energy Systems, INT 442	3	
	50	50

Industrial Technology Operations Core

Legal Environment of Business, FIN 295	3	
Financial Concepts in Industry, FIN 301	3	
Industrial Management, MGT 362	3	
Personnel in Technology, INT 407	3	
Technical Writing, ENG 333	3	
Industrial Safety, MGT 386	3	
Industrial Hygiene, ESC 431	4	
	22	22

Elective Sequence

Selected courses in Electrical Power Systems (approved by faculty adviser)	18	18

Senior Project

Senior Project, TEC 400, 401	6	6
Total		129

ELECTRONICS TECHNOLOGY CURRICULUM

(An Industrial Technology Emphasis Area)

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts	6	
Social Sciences	9	
Mathematics (MAT 131)	3	
Science (must include PHY 105)	7	
Physical Education or Approved Substitute	2	
	33	33

Electronics Technology Competency Core

Trigonometry for Technology, MAT 133	3	
Introduction to Calculus for Technology, MAT 236	3	
Applications of Calculus for Technology, MAT 237	3	
Applied Physics, PHY 106	4	
Thermodynamics, PHY 331	3	

*Network Analysis	6	
*Electronic Devices	3	
*Electronic Circuit Applications	6	
*Instrumentation and Measurements	6	
Graphics, TEC 348	3	
Computer Science (must include CSS 240)	6	
Structure of Materials, PSC 330	3	
Electrical Energy Systems, INT 442	3	
	52	52

Industrial Technology Operations Core

Legal Environment of Business, FIN 295	3	
Financial Concepts in Industry, FIN 301	3	
Industrial Management, MGT 362	3	
Personnel in Technology, INT 407	3	
Technical Writing, ENG 333	3	
Industrial Safety, MGT 386	3	
Production Technology, INT 405	3	
	21	21

Elective Sequence

Selected courses in Electronics (approved by faculty adviser)	18	18

Senior Project

Senior Project, TEC 400, 401	6	6
Total		130

*This option is designed for students who have Associate Degree in Electronics Technology or the equivalent. These courses markes with an asterisk are not offered at USM and are assumed to be part of the competency in Electronics Technology.

MECHANICAL TECHNOLOGY CURRICULUM

Wesley Baldwin, Coordinator

University Core	**Hours**	
English, ENG 101, 102	6	
Humanities and Fine Arts	6	
Social Science (must include PSY 451)	9	
College Algebra, MAT 131	3	
Science (must include PHY 105)	7	
Physical Education or Approved Substitute	2	
	33	33

Mechanical Technology Competency Core

General Physics, PHY 106	4	
Trigonometry, MAT 133	3	
Introduction to Calculus, MAT 236	3	
Applications of Calculus, MAT 237	3	
Industrial Instrumentation, INT 308	3	
Electrical Energy Systems, INT 442	3	
Graphics, TEC 348	3	
Production Graphics, TEC 349	3	
Elements of Design, TEC 350	3	
Statics, ACT 375	3	

Strength of Materials, ACT 376	3	
Structure of Materials, PSC 330	3	
Manufacturing Processes, INT 300	3	
Introduction to Programming Lab, CSS 240	3	
Fluid Mechanics, MET 323	3	
Environmental Controls, MET 320	3	
Thermodynamics, PHY 331	3	
Kinematics, MET 361	3	
Machine Design, MET 362	3	
	58	58
Industrial Technology Operations Core		
Financial Concepts in Industry, FIN 301	3	
Industrial Management, MGT 362	3	
Production Technology, INT 405	3	
Personnel in Technology, INT 407	3	
Technical Writing, ENG 333	3	
	15	15
Elective Sequence		
Selected courses for specialization	18	18
Senior Project		
Senior Project, TEC 400, 401	6	6
Total		130

MEDICAL TECHNOLOGY

See Department of Medical Technology, page 192.

PLASTICS TECHNOLOGY

See Department of Polymer Science, page 195.

DEPARTMENT OF BIOLOGY (BIO–305)

Billy J. Grantham, Chairman

Cliburn, Fish, Gunter,* Hood, F. Howell, Howse,* J. Kelley, Larsen, Martin, Norris, Overstreet,* Pessoney, Ross, Rosso, Scheetz, B. Smith, Story, Woodmansee, * Wooten

*Gulf Coast Research Laboratory

The Department of Biology prepares students to become professional zoologists or botanists, biology teachers, or fishery, wildlife, or marine biologists. The Department of Biology also offers pre-professional training in medicine, dentistry, pharmacy, veterinary, physical therapy, optometry, and dental hygiene.

Requirements for Major

A student majoring in the Department of Biology may elect one of several plans of study leading to either the Bachelor of Arts or the Bachelor of Science degree. Information concerning the Master of Science degree and the Doctor of Philosophy degree is in the **Graduate Bulletin.** A student's choice of a degree program should be determined in consultation with his adviser.

A. **General Core Curriculum Requirements**

A student majoring in the Department of Biology must satisfy the general core requirements of the College of Science and Technology.

B. **Departmental Curriculum Requirements and Recommendations**

1. Required courses

a. BIO 101, 102, 202, 315, and GEN 402.

b. Three (3) additional hours of botany at the 300-400-level.

c. Three (3) additional hours of zoology at the 300-400-level.

d. Additional courses in biology for a minimum of thirty-five (35) hours.

e. CHE 101, 102, 103; 351, 352, 353. Students not planning to enter a graduate or medically associated program may take CHE 251, 252, 421 with the approval of the chairman.

The student majoring in the Department of Biology is encouraged to take as many additional courses as possible in chemistry, geology, mathematics, microbiology, and physics.

2. Recommended courses in special areas of emphasis

a. **Botany**—Departmental curriculum requirements, plus courses elected in botany with approval of adviser.

b. **Zoology**—Departmental curriculum requirements, plus courses elected in zoology with approval of adviser.

The following curricula are recommended by state and federal agencies as preparation for research positions.

c. **Marine Biology**—Departmental curriculum requirements, plus elected courses including BIO 423, 436, 437, 440, 444, 461, 462, and 467; one summer at the Gulf Coast Research Laboratory recommended. CHE 311, 312, and PHY 101, 102, 103 recommended.

d. **Wildlife Biology**— Departmental curriculum requirements, plus elected courses in such subjects as BIO 339, 420, and 438; and at least nine (9) hours from BIO 441, 442 457, 461, or 462.

e. **Fisheries Biology**—Departmental curriculum requirements, plus elected courses including eighteen (18) hours in BIO 339, 432, 433, 436, and 437, 438; and six (6) hours of aquatic biology such as BIO 440, 444, 449, 453, 465, 466, and 467.

3. Recommended courses in areas of pre-professional training in medicine, dentistry, pharmacy, and veterinary science are outlined in this **Bulletin** in the beginning section of the College of Science and Technology.

GULF COAST RESEARCH LABORATORY

The University of Southern Mississippi is closely allied with the Gulf Coast Research Laboratory at Ocean Springs. Staff members and biology majors in both the graduate and undergraduate schools have been active participants in the work at the Gulf Coast Research Laboratory. It is strongly recommended that all majors in biology take at least a six-weeks' program in marine biology as offered at the Laboratory. The following courses are taught only at the Gulf Coast Research Laboratory: BIO 481, 483, 484, 485, 488, 489.

DEPARTMENT OF CHEMISTRY (CHE–320)

John H. Bendenbaugh, Chairman

A. Bedenbaugh, Blomquist, Elakovich, Griffin, Hawkridge, J. Howell, Krubsack, McCain, Pinson, Toom, van Aller, Wertz, H. Williams

A student majoring in chemistry must work toward the Bachelor of Science degree. For information concerning the master's degree and the Doctor of Philosophy degree, see the **Graduate Bulletin.** A major in chemistry will include not less than thirty-six (36) semester hours of chemistry. A minor is not required.

The Department of Chemistry is accredited by the Division of Chemical Education of the American Chemical Society. A chemistry major may graduate as a chemist certified by the American Chemical Society. In order to obtain this certified degree the following curriculum is prescribed.

ACS CERTIFIED DEGREE

	Suggested Prerequisites or Corequisites
CHE 101, 102, 103	ENG 101, 102, 333
CHE 351, 352, 353	MAT 101, 103, 171
CHE 311, 312, 411	MAT 276, 277, 378
CHE 461, 462, 463	MAT 405
CHE 431	PHY 201, 202, 203 or 101, 102, 103
CHE electives—9 hours to be chosen from 300, 451, 452, 421, 422, 432, 441, 496	HIS 101, 102
	PS 101
	PHI 253
	AA 100
	PA 111

Electives—27 hours
Recommended electives GEN 402
CSS 240, CSS 340, GLY 101, PHY 361, PSC 412, FL 121, 122, 221, 222, MAT 379

CHEMISTRY MAJOR (NON-ACS CERTIFIED)

A major in chemistry will include not less than thirty-six semester hours of chemistry and must consist of:

CHE 101, 102, 103
CHE 351, 352, 353
CHE 311, 312
CHE 461, 462, 463

Recommended companion courses are:

MAT 101, 103, 171
MAT 276, 277, 378, 379 (calculus)
PHY 201, 202, 203, or 101, 102, 103

SECONDARY EDUCATION

A major in chemistry for secondary education will include not less than twenty-seven (27) hours and must consist of:

CHE 101, 102, 103
CHE 351, 352, 353
CHE 311, 312

DEPARTMENT OF COMPUTER SCIENCE AND STATISTICS (CSS-330)

Danny R. Carter, Chairman

Bisland, Burge, Dearmond, Hyatt, McKenzie, Nagurney, Stewart, B. Walters

The Computer Science and Statistics Department is designed to meet the great demand for trained personnel in electronic computers, and statistics in business, space and missile programs, engineering, government, and the academic world. The department provides training in digital as well as analog computer techniques. Current course offerings provide for an academic major in computer science, data processing, computer technology, systems science, or statisics at the undergraduate level and a major in computer science or statistics at the graduate level.

The department has initated a cooperative education program with industry for selective students. The students selected for this program attend school and work on alternate quarters.

REQUIREMENTS FOR MAJOR COMPUTER SCIENCE

The courses required for a baccalaureate major in computer science are listed below by sets.

(A) CSS 240, 320, 340, 341, 342, 441, 460, 461
(B) CSS 323, 420, 421, 470, 471, 476
(C) CSS 415, 416, 417, 435, 436

Requirements for Majors:	Hours
(2) All courses from Set (A)	25
(3) Three courses from Set (B)	9
(4) Two courses from Set (C)	6
Total	40

A minor of twenty-one (21) hours is also required. Suggested minors include the following: accounting, geography, mathematics, physics, or statistics.

STATISTICS

CSS 415, 416, 417, 422, 435, 436

The remainder of the eighteen (18) hours is to be selected with the approval of the department chairman.

A minor of twenty-one (21) hours is also required. Suggested minors include the following: computer science, geography, or mathematics.

DATA PROCESSING

(This is an interdisciplinary major offered in conjunction with the Department of Accounting, College of Business Administration.)

	Hours
*Freshman and Sophomore Curriculum	72
CSS 211, 212, 422	9
GBA 295, MGT 360	6
Accounting courses as listed below:	15
ACC 301, 302, 320, 330	12
ACC 401 or 409	3

*The student must take at least eight hours of laboratory science.

	Hours
Computer Science courses as listed below:	23

CSS 320, 340, 341, 342, 441, 442, 480

A student may select an additional option in system science. This option includes the following courses:

CSS 100, 240, 320, 323, 324, 340, 341, 415, 416, 420, 421, 423, 435, 476
MAT 341, 379, 405, 417
PHY 201, 202, 203, 327, 421
Twelve (12) hours of systems electives in computer science.
Six (6) hours of electives in a related field.

COMPUTER TECHNOLOGY (229)

	Hours
College of Science and Technology Core	53
Major Core	
CSS 240, 340, 341, 342, 370, 371, 372, 441	38

Specialty

Software

	Hours
CSS 460, 461	6
CSS 450, 451	8
CSS 480	4
CSS 470	3
Total	21

Scientific

	Hours
CSS 320	3
CSS 420, 421	6
CSS 415-416 or 435-436	6
CSS 460	3
CSS 470	3
Total	21

A minor of twenty-one (21) hours is also required. Physics would be a suggested minor.

DEPARTMENT OF GEOLOGY (GLY-340)

Oscar Paulson, Acting Chairman
Bowen, B. W. Brown, Sundeen

Students may major in geology as preparation for careers in development of natural resources, regional and national planning, research, secondary education, college and university teaching, oceanography, exploration of the Earth and Space, and other allied occupations. A Bachelor of Science and graduate work through the master's degree are offered in the department.

High School Preparation. Secondary students planning to prepare for professional careers in the geological sciences should complete credits in biology, chemistry, and physics (if available), mathematics through second-year algebra, solid geometry, and trigonometry (or equivalent). Other desirable credits include foreign language, engineering drawing or similar courses in drafting and typing.

Bachelor of Science Program. For the Bachelor of Science in Geology, the following courses, in addition to the requirements of the University Core and the College of Science and Technology, are required:

Mathematics through Analytic Geometry
Chemistry 101-102-103
Physics 101-102-103 (or 201-202-203) or 105-106
Geology 101, 102, 103, 104, 301, 304, 308, 310, 341 and twelve hours from other course offerings, six of which may be summer geology field course. The requirement for field geology may be met by taking summer geology courses offered at marine stations, such as the Gulf Coast Research Laboratory in Ocean Springs, Mississippi.

Minor. A minor of eighteen (18) hours is also required. Suggested minors include the following: biology, chemistry, computer science, geography, mathematics, or physics.

SUGGESTED GEOLOGY 4-YEAR CURRICULUM

A curriculum which prepares the students for professional employment or advanced study in geology is suggested below (students wishing to prepare for careers in paleontology, geochemistry, geophysics, or oceanography should consult with their departmental adviser regarding desirable modifications from this curriculum).

Freshman

Fall	Winter	Spring
ENG 101	ENG 102	HIS 101 or 302
GLY 101	GLY 103	PHI 253 or AA 100
GLY 102	GLY 104	CSS 240
MAT 101	MAT 103	MAT 171
PED/ROTC	PED/ROTC	

Sophmore

CHE 101	CHE 102	CHE 103
PHY 101 or 201	GLY 341	Elective
CSS 340	PHY 102, *105 or 202	PHY 103, *106 or 203
Elective	Minor	Minor

Junior

GLY 301	GLY 302	GLY 304
GLY 308	GBA 375	GLY 310
GHY 210, 370 or 411	TEC 348	ACT 395
HIS 102 or 300	PS 101 or SOC 101	ECO 100, 256 or 375
	Summer Field Camp (6)	

Senior

GLY Elective	GLY Elective	GLY Elective
ECO 335, GBA 295 or MGT 360	Minor	Minor
Minor	Elective	Elective
ENG 333	Elective	Elective

*Recommended physics sequence

It is strongly recommended that geology majors complete mathematics through MAT 405 and take the three geophysics courses: GLY 420, SCI 422, SCI 426.

The department has a cooperative arrangement with the Gulf Coast Research Laboratory where certain courses in marine geology may be taken in the summer.

GEOLOGY MINOR AND PREPARATION FOR SECONDARY EDUCATION, EARTH SCIENCE TEACHING

The following courses are suggested for students seeking a geology minor or preparation for earth science teaching in secondary schools: GLY 101, 102, 103, 104, 301, 304, 310, and 341.

DEPARTMENT OF MATHEMATICS (MAT-350)

James Caveny, Chairman

B. J. Davis, Doblin, Dunigan, Essary, Hare, N. Howell, Jeter, R. W. King, Knighton, Morrell, V. Mullins, Munn, Oxford, Pye, Thrash, Webster

The Department of Mathematics offers a flexible curriculum for baccalaureate degrees so that individual students may tailor their university mathematics programs to fit specific educational and career objectives. The Bachelor of Arts and Bachelor of Science degrees in mathematics provide sound foundations for a broad latitude of careers in education, industry, government, and commerce. Many of today's challenging careers call for continuing education, either formal or informal, after the bachelor's degree, and the undergraduate major in mathematics provides a versatile avenue for preparing for advanced studies in a number of fields including mathematics, computer science, statistics, management science, actuarial science, mathematics education, applied mathematics, law, and medicine. The Department of Mathematics offers the Master of Science degree, and, in cooperation with the College of Education and Psychology, the Master of Education, the Specialist, the Doctor of Education and the Doctor of Philosophy degrees. For information concerning degrees beyond the bachelor's degrees consult the **Graduate Bulletin.**

Students who have completed a college preparatory program in high school should begin their university mathematics program with MAT 171 and/or MAT 276. Students without this background should elect appropriate mathematics courses in consultation with their academic advisers. Mathematics majors should take MAT 341 and 326 concurrently with some of the calculus courses. Mathematics majors should **not** enroll in the courses MAT 112, 120, 131, 133, 199, 210, 236, 237, 310, or 312 which are designed to serve the special interests of students in other departments and colleges.

In order to facilitate the proper selection of courses for the mathematics major, the curriculum is divided into sets (A) – the mathematics core, and (B) – the upper level options.

(A) MAT 276, 277, 326, 341, 378, 379

(B) MAT courses numbered above 400 other than 410

Requirements for Majors:	Hours
(1) All courses in Set (A)	18
(2) Five courses from Set (B)	15
Total	33

Recommendations for Minors:	Hours
(1) All courses in Set (A)	18
(2) One or more courses from Set (B)	3
Total	21

The curriculum of the Department of Mathematics is designed to meet the following objectives:

(i) prepare students for industrial or commercial employment,
(ii) prepare students to teach secondary school mathematics,
(iii) prepare students for graduate study in mathematics and related fields,
(iv) provide supportive courses for other degree programs in the University.

Each student, in consultation with a faculty adviser, should elect upper level options that are compatible with career objectives. Guidelines to assist in the selection of these options are available in the departmental office. Prospective secondary school teachers should satisfy certification requirements for the desired area of endorsement. In Mississippi the requirements for a Class A certificate with endorsement in mathematics are (i) and (ii) below:

(i) 15 semester or 20 quarter hours to include algebra, trigonometry, analytical geometry, and calculus, 6 semester or 8 quarter hours of which must be in calculus.
(ii) 9 semester or 12 quarter hours chosen from at least two of the following areas: Abstract Algebra, Modern Geometry, Foundations of Mathematics, Probability and Statistics.

Prospective secondary school teachers should also complete the general education and professional education requirements for secondary teachers listed in this **Bulletin** under the description of programs in the Department of Curriculum and Instruction.

DEPARTMENT OF MEDICAL TECHNOLOGY (MTC-354)

William G. Brundage, Chairman
Robert T. Crews, Vice-Chairman and Education Coordinator
Atchison, Cooke, Dore, and Henderson, Clinical Directors
Harwell, Hudson, Monroe, Owen, Wester
Forrest General Hospital: R. Cooke, Keller
Hinds General Hospital: Ferguson, Henderson
Memorial Hospital at Gulfport: Atchison, Lopez
Singing River Hospital: Barrett, Dore, Stith

The Department of Medical Technology is accredited by the Council on Medical Education of the American Medical Association. Upon successful completion of the program, students receive the Bachelor of Science degree in Medical Technology and become eligible to take the National Registry Examination given by the Board of Registry, American Society of Clinical Pathologist. For information on the Master of Science degree, please consult the **Graduate Bulletin.**

Requirements for Major

A student majoring in the Department of Medical Technology must complete courses outlined for the freshman, sophomore, and junior years. During the junior year, the student will apply to the department for admission into the senior year. The fourth year of training consists of two phases: Phase I, a six-month didactic session on the University of Southern Mississippi campus; and Phase II, a six-month clinical session at

one of our affiliated hospitals. Affiliated hospitals are: Memorial Hospital, Gulfport; Forrest County General Hospital, Hattiesburg; Singing River Hospital, Pascagoula; and Hinds General Hospital, Jackson, Mississippi.

Two senior classes are accepted each year, one in June and one in December.

CURRICULUM

Freshman

Fall	Winter	Spring
ENG 101	ENG 102	Social Science
CHE 101	CHE 102	CHE 103
BIO 101	BIO 102	BIO 202
MAT 101	MAT 103	MAT 171 or CSS 100
PED or ROTC/AFROTC	PED or ROTC/AFROTC	MTC 101

Sophomore

CHE 311	CHE 312	CHE 252
MIC 101	CHE 251	Social Science
GEN 451	Social Science	PHI or AA
ENG 333	HIS	HIS

Junior

MIC 411	MIC 412	BIO 425
MIC 441	BIO 424	MGT 360
CHE 321	CHE 322	CHE 441
MTC 306	MTC 309	MTC 302
		MTC 400

Senior

Didactic Session
MTC 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412

Clinical Session
MTC 451, 452, 455, 456, 457, 458, 459

DEPARTMENT OF MICROBIOLOGY (MIC–310)

Peter K. Stocks, Chairman

Angel, Ellender, Middlebrooks, Peebles, Stoddard, Yarbrough

The Department of Microbiology offers programs of study leading to the degrees of the Bachelor of Science, the Master of Science, and the Doctor of Philosophy. For information on the master's and the Doctor of Philosophy programs please consult the **Graduate Bulletin.**

The Department of Microbiology is designed to prepare students for careers in medical and industrial (applied) microbiology and genetics. Current course offerings provide for an undergraduate major or minor in microbiology or a minor in genetics.

Requirements for Major

A student majoring in the Department of Microbiology must complete a minimum of thirty-two (32) semester hours including the following specific courses:

	Hours
MIC 101, 301, 408, 455	12
GEN 402, 403, 461	10
BIO 448, 449	6
CHE 101, 102, 103, 351, 352, 353	19
PHY 101, 102, 103	9
MAT 171, 276, 277	9

SUGGESTED FOUR-YEAR CURRICULUM FOR MICROBIOLOGY MAJORS

Freshman

Fall	Winter	Spring
ENG 101	ENG 102	ENG 333

MIC 101	MIC 301	MIC 408
CHE 101	CHE 102	CHE 103
MAT 171	MAT 276	MAT 277
PED or ROTC/AFROTC	PED or ROTC/AFROTC	PED or ROTC/AFROTC
	Sophomore	
CHE 351	CHE 352	CHE 353
PHY 101	PHY 102	PHY 103
MIC 411	MIC 412	MIC 441
GEN 402	GEN 403	GEN 461
	Junior	
CHE 311	CHE 312	AA 100
HIS 101	HIS 102	PSY 110
MIC 421	MIC 422	MIC 455
CSS 211	CSS 212	CSS 240
	Senior	
PHI 253	ECO 200	MIC 462
MIC 471	BIO 448	BIO 449
CHE 421	CHE 422	Elective
BIO 424	MIC 461	ESC 411

INSTITUTE OF GENETICS (GEN-312)

Karen M. Yarbrough, Director
Peebles, Stoddard

The Institute of Genetics participates in programs leading to the Master of Science and the Doctor of Philosophy degrees through the Department of Microbiology. Information on these programs may be obtained from the **Graduate Bulletin.** The Institute of Genetics also offers a minor in genetics at the bachelor's level.

A minimum of eighteen (18) semester hours is required which should include GEN 402, 403, and 451. The remainder of the program is to be selected with the approval of the Director of the Institute of Genetics.

DEPARTMENT OF PHYSICS (PHY–360) AND ASTRONOMY (AST–365)

William E. Hughes, Chairman
Folse, Herzog, Rayborn, St. Clair

The primary objectives of the Department of Physics are to provide students with sufficient basic information and technical skills in the various areas of physics so that they may be qualified to:

(a) Serve as teachers in secondary schools. A physics major for this group will include PHY 101, 102, 103 or PHY 201, 202, 203; PHY 341, 361, 362, plus 9 hours of any other physics courses above the 200-level (total 27 hours). Mathematics through Calculus is required.

(b) Serve as physicists in government or industry. Physics majors for this group will include PHY 101, 102, 103 or PHY 201, 202, 203; PHY 341, 350, 351, 361, 362, 421, 422, 423, 460 plus 6 hours of other physics courses above the 200-level (total 38 hours). The prerequisite mathematics for the physics courses may constitute the minor, or the student may elect to complete any allied science for the minor. CHE 101, 102, and 103 and mathematics through Differential Equations are required.

(c) Pursue professional work and graduate study in physics. It is the intent of the Physics Department to meet the recommendations of the **American Institute of Physics–National Science Foundation Committee on Curriculum for Undergraduate Physics Majors.** Any student planning to do graduate work in physics should consult the department about additional undergraduate credits in physics and mathematics. CHE 101, 102, and 103 are required.

NOTE: AST 311, 312, 313 do not fulfill the physics courses which may be elected in (b) and (c) above.

Leaflets giving outlines of undergraduate programs that will meet all departmental and University requirements are available from the departmental office. Students planning to major in physics should obtain these leaflets as soon as possible.

It is assumed that the high school mathematical preparation of entering freshman students includes Algebra I, Algebra II, geometry, and trigonometry.

DEPARTMENT OF POLYMER SCIENCE (PSC–370)

Gary C. Wildman, Chairman

Bufkin, Frayer, McCormick, D. R. Owen, Thames

The Department of Polymer Science offers programs of study leading to the degrees of the Bachelor of Science in Polymer Science, the Bachelor of Science in Plastics Technology, the Master of Science in Polymer Science, and the Doctor of Philosophy in Polymer Science. For information concerning the master's and Doctor of Philosophy degree, see the **Graduate Bulletin.**

BACHELOR OF SCIENCE IN POLYMER SCIENCE

The objective of this curriculum is to prepare the graduate to enter the industrial community or to continue his studies at the graduate level. The Bachelor of Science in Polymer Science constitutes an interdisciplinary program of study and, therefore, no minor is required.

THE BACHELOR OF SCIENCE IN POLYMER SCIENCE

Requirements	Hours
Polymer Science	31
Physics	9
Computer Science	3
Chemistry	22
Mathematics	18
Basic Core of the College of Science and Technology	
Electives	

A student entering this program should consult with his adviser concerning the identity and chronological order of the courses to be taken. The following is a suggested list of the scientific courses that should be taken:

PSY 301, 302, 303, 360, 361, 362, 401, 402, 403, 470, 471
PHY 201, 202, 203
CSS 240
CHE 101, 102, 103, 311, 351, 352, 353
MAT 171, 276, 277, 378, 379, 405

Each student is encourated to complete an independent research project (PSC 490, 491) during his last two quarters. Additional electives from the College of Science and Technology and the College of Business Administration are selected to each student's career plans.

BACHELOR OF SCIENCE IN PLASTICS TECHNOLOGY

The curriculum for the Bachelor of Science in Plastics Technology is designed to prepare the student to enter the rapidly expanding plastics industry. A plastics technology major will complete a minimum of forty-two (42) semester hours in the major field. No minor is required. Each student will be assigned an adviser to plan the proper course sequence within the student's interest. The following course outline is a suggested program of study:

Freshman

Core requirements plus CHE 101, 102, 103 and MAT 101, 103, 171. (Drafting, if none in high school.)

Sophomore

Complete core including physics, organic chemistry, calculus.

Junior and Senior

PSC 350, 351, 352, 360, 361, 362, 463, plus 21 hours selected from an approved list of courses available from the department.

Electives from the College of Science and Technology and the College of Business Administration are selected according to each student's career plans.

DEPARTMENT OF SCIENCE EDUCATION (SCE–380)

Including Fundamentals of Science (FS–390)

Bobby N. Irby, Chairman

Bellipanni, F. Brown, I. Brown, Craven, Dale, Flowers, Hurst, Matthews, Milkent, Sonnier

The Department of Science Education is operated jointly by the College of Science and Technology and the College of Education and Psychology. The facilities are in the College of Science and Technology. Programs in teacher-education are in the College of Education and Psychology. Responsibility for the curriculum is shared jointly. Graduate programs are described in the **Graduate Bulletin.**

Objectives

The objectives of the Department of Science Education are: (1) to provide those courses in both the physical and biological sciences which would give a minimum degree of scientific literacy to all students; (2) to provide, in cooperation with the Department of Curriculum and Instruction, a curriculum in the sciences and science methods for elementary school teachers; (3) to provide programs for those students planning to teach the sciences at the secondary school level; (4) to provide programs leading to advanced degrees in science education; and, (5) to work with public schools in the development of curricula, workshops, science fairs, and other activities designed to improve science instruction at all public school levels.

Curriculum and Programs

The Department of Science Education is primarily concerned with teachers and prospective teachers of science. Although some students will be planning to teach a specific science discipline, current public school organization encourages diversification of training in the sciences for prospective science teachers. Therefore, familiarity with principles and concepts common to all the scientific disciplines should be a prerequisite for teacher training programs in science education. Hence, programs in science education are so organized as to give teachers and prospective teachers a broad understanding of several sciences, with the opportunity for enough specialization in one area to pursue advanced study.

All prospective science teachers at the junior and senior high school levels are expected to complete introductory courses in the four basic science areas–biology, chemistry, geology, and physics. One year of college mathematics is also required. With few exceptions, the first mathematics course would deal with analytical geometry.

Specialization in a particular science, depending upon the area, requires from twenty-three (23) to twenty-nine (29) semester hours credit in that area. Upon completion of the undergraduate program, the student would be certified to teach one or more specific sciences and general science. A general outline of the program is given below:

Freshman

	Hours
ENG 101, 102, 333	9
MAT 101, 103, 171	9
CHE 101, 102, 103	9
PS 101	3
AA 100	3
HTH 101	3

Sophomore

BIO 101, 102, 202 12
ENG 200, 201, 202, or 401 3
HIS 101, 102 6
GHY 223, or 224 3
PHY 101, 102, 103 9

Junior

PSY 110 3
SOC 101 3
PA 111 3
GLY 101, 102, 103 9
Begin prescribed (27 hours) professional education sequence
Additional sciences (Note: biology specialists must complete organic chemistry.)

Senior

Complete education sequence ..... (total) 27
CIS 456 (quarter preceding student teaching) 3
CIS 313, 486 12
Science Education 400-level course in specific science area 3
Complete required science courses and credits needed for graduation.
Biology courses for specialization—101, 102, 202, 401, two electives, MIC 101 and GEN 402.
Chemistry courses for specialization—101, 102, 103, 311 312, 351, 352, 353.
Earth Science courses (being interdisciplinary, courses are utilized from three departments) GLY 101, 103, 341; one GLY elective; AST 311, 312, 313; GHY 223, 224, and 425.
Physics courses for specialization—101, 102, 103, 361, 362, three physics electives and MAT 276.

The scope of the science education program and the fact that many courses run in sequence and are offered at particular times of the year necessitate careful and frequent advisement of students. It cannot be over-emphasized that students should consult with their assigned adviser each quarter. Failure to do so will most often result in unnecessary delays and hardships in completing the program.

The above program provides a broad background and some depth in all science areas, gives the prospective teacher an opportunity for considerable depth and specialization in one science area, and requires the necessary background courses in professional education for effective teaching.

Students in the College of Science and Technology and in the College of Education and Psychology can major in science education and minor in secondary education. The program as outlined above for science teachers meets the certification requirements in all states in the areas of biology, chemistry, physics, earth science, general science, and physical science.

FUNDAMENTALS OF SCIENCE (FS–390)

Fundamentals of Science: Two courses in general physical science and two courses in general biological science of three semester hours credit for each. These courses (the 100 series) consist of lecture demonstration sessions of 200 minutes and 210 minutes per week. These courses are designed to give the non-science major an acquaintance and understanding of certain fundamental principles of the major science disciplines.

Inasmuch as there is overlapping and duplication in these courses and those offered by various other science department, the student should read carefully the limitations for each of the Fundaments of Science courses. Any questions should be answered by the student's adviser and/or the Department of Science Education prior to enrolling in these courses since they may be taken in any sequence the student chooses.

The FS 130 series is designed for elementary education and special education majors. These courses are sequential and they should be taken in numerical order.

NOTES

UNIVERSITY OF SOUTHERN MISSISSIPPI–GULF PARK

Joe E. Holloway, Dean

Bullard, Burch, Calvasina, L. Crook, B. E. Lee, Manly, Mendenhall, Ozerden, Sherry, B. E. Smith, C. Thompson, Wallace, Wilder

The University of Southern Mississippi-Gulf Park, with campuses both in Long Beach and at Keesler Air Force Base, is part of a cooperative coordinated plan to offer higher education on the Mississippi Gulf Coast. While the Mississippi Gulf Coast Junior College District administers local programs at the freshman-sophomore level and Mississippi senior colleges meet the needs of full-time students, USM-Gulf Park offers junior, senior, and graduate level courses to part-time commuting students. USM-Gulf Park classes are scheduled only in the afternoon and/or evening on weekdays and at any time on weekends.

USM-Gulf Park enables the University of Southern Mississippi to bring its programs to residents of the Mississippi Gulf Coast. All courses and programs are offered through the appropriate departments and colleges on the parent campus in Hattiesburg. USM-Gulf Park carries full Southern Association of Colleges and Schools accreditation as part of the University of Southern Mississippi. Accordingly, most of the policies governing USM-Gulf Park undergraduate programs are identical with those stated elsewhere in the **Bulletin.** Information unique to USM-Gulf Park undergraduate programs is outlined below.

DEGREE PROGRAMS

USM-Gulf Park offers National Council on Accreditation of Teacher Education accredited programs leading to the Bachelor of Science professional degree in elementary education and in secondary education with emphasis in selected areas. Other baccalaureate programs include the Bachelor of Science with majors in business administration, criminal justice studies, and industrial and vocational education (post-secondary). With the exception of the Bachelor of Science with major in business administration, degree requirements are identical with those outlined elsewhere in this **Bulletin.** Information concerning the B.S. degree with major in business administration can be obtained from the Coordinator of Undergraduate Studies in Business, USM-Gulf Park.

Admission

In keeping with the status of USM-Gulf Park as an upper level institution, regular admission is open only to students who have attained junior standing (54 semester hours). With special permission from the Dean, a student with less than 54 semester hours of academic credit who has a need for and is otherwise eligible for enrollment in an upper-level (junior or senior) course may be accepted on a per-course basis. In other respects, admission requirements are identical with those outlined elsewhere in this **Bulletin.** In order to facilitate proper advisement and predetermination of admission status, students should furnish transcripts and complete applications for admission at least twenty days prior to registration. Although students who have not yet furnished transcripts or applied for admission may be provisionally admitted at registration, the University of Southern Mississippi is in no way committed to continue their enrollment, to refund any fees, or tuition, or grant any grades, or otherwise to award any credit if all of the required admission forms are not recieved on time or if the student is found to be ineligible for admission to the University. Transcripts of provisional students must be received by the middle of the quarter in which they register. Transcripts and the completed application should be sent to the Director of Admissions and Records, USM-Gulf Park, Long Beach, MS 39560.

Course Load

Undergraduate students may enroll at USM-Gulf Park and/or Keesler Air Force Base center for a maximum of six (6) semester hours per quarter.

Residency Requirements

The following regulations serve in lieu of residence hour requirements for USM-Gulf Park:

1. At least thirty-two (32) semester hours of credit must be earned at one, or a combination of, the University's three degree-granting campuses.
2. At least nine (9) of these thirty-two hours must be earned in the students major field.
3. At least sixteen (16) of these thirty-two hours (exclusive of student teaching) must be taken at the USM-Gulf Park campus.

Honors

In keeping with USM-Gulf Park's status as a part-time institution, special policies have been formulated in order to accord official recognition to part-time students who achieve outstanding academic records.

Dean's List: Students will be placed on the quarterly USM-Gulf Park Dean's List if they attain a quality point ratio of 3.25 or above on an academic load of not less than six (6) semester hours (including Jackson County Resident Center credit).

Degrees with Honors: Students with exceptional academic records may be awarded degrees with honors or with highest honors. The residence requirements for such degree is not less than five (5) quarters with a load of not less than six (6) semester hours of credit each quarter (including Resident Center credit) and totaling not less than fifty-four (54) semester hours of credit with the University of Southern Mississippi. A degree with honors will be granted to a student who maintains a quality-point average of 3.5 or more. A degree with highest honors will be granted to a student who maintains a quality-point average of 3.8 or more.

Supporting Programs

In addition to offering degree programs in the areas mentioned above, USM-Gulf Park regularly schedules courses in support of many degrees offered only through the Hattiesburg campus, thereby enabling a student to earn a portion of his degree requirements on the Mississippi Gulf Coast. Courses are also scheduled to meet teacher certification and recertification requirements as well as other areas of professional and personal upgrading. USM-Gulf Park course work does **not** count toward meeting residency requirements for USM-Hattiesburg degrees.

Advisement

Students pursuing freshman-sophomore requirements at other institutions in preparation for entrance into a USM-Gulf Park degree program are invited to consult with a USM-Gulf Park adviser.

Students pursuing degrees through USM-Gulf Park are assigned an adviser from USM-Gulf Park's resident faculty. Students involved in programs leading to degrees available only through the Hattiesburg campus must consult the appropriate department chairman on the parent campus in Hattiesburg.

In order to facilitate the advisement process and expedite registration, students should contact their adviser early in the month preceding registration.

Fees

All USM-Gulf Park and USM-Jackson County student fees are assessed in accordance with the University's part-time student fee schedule quoted elsewhere in this **Bulletin.** Students who enroll concurrently between the USM-Hattiesburg Campus and USM-Gulf Park must pay separate fees for their USM-Gulf Park courses.

USM-Jackson County Resident Center

Gulf Coast area students are also served by a separate unit, the University of Southern Mississippi Jackson County Resident Center. Course offerings and scheduling are coordinated with USM-Gulf Park and students are permitted to enroll concurrently at both locations.

USM-Jackson County is a resident center, not a degree completion campus. Although there is no limit to the amount of undergraduate credit that can be earned at the Jackson County Resident Center, its course work does not apply toward meeting residency requirements for either USM-Gulf Park or USM-Hattiesburg bachelor's degrees. In effect, this means that for all USM-Gulf Park bachelor's degree programs and for some USM-Hattiesburg degree programs an undergraduate student may earn the equivalent of his junior year at USM-Jackson County Resident Center.

UNIVERSITY OF SOUTHERN MISSISSIPPI-NATCHEZ

Billy W. Gore, Dean

L. Bowers, Bowden, Hensley, Lindecamp, Mixon, Parks, Presley, Welsh

The University of Southern Mississippi—Natchez is located in beautiful and spacious Duncan Park. Upper division and graduate courses are offered to part-time commuting students in the region. Through cooperative arrangements with Copiah-Lincoln Junior College, which operates a branch in Natchez, and Alcorn A & M University, which participates with the University, students can take all four years of a baccalaureate degree, then progress to master's work in Natchez. For further details of any program at Natchez, please write:

USM-Natchez
Natchez, MS 39120

DEGREE PROGRAMS

The University of Southern Mississippi-Natchez offers at its campus the Bachelor of Science professional degree in Elementary Education, the Bachelor of Science in Criminal Justice, the Bachelor of Science professional degree in secondary education with majors in social studies, English, mathematics, business education, or library science. Additionally, the Master of Education professional degrees are offered in elementary education, secondary education, and educational administration. All of the above degree programs are offered through the respective departments at USM-Hattiesburg with coordinators, advisers, professional staff, and classes available on a continuing basis at the USM-Natchez campus.

With exception of the residence hour requirements, degree programs at USM-Natchez follow regulations and curricular outlines found in the appropriate sections of this **Bulletin.**

In addition to the degree programs above, the University of Southern Mississippi-Natchez offers the Bachelor of Science in General Business, the Master of Science in Management, and the Associate Degree in Nursing. These programs are offered by the University at the Natchez campus only. A description of the Associate Degree in Nursing Program and the Bachelor of Science in Business degree will follow later in this **Bulletin.** A description of the Master of Science in Management may be found in the USM-Natchez section of the **Graduate Bulletin.**

Admission

Since the University of Southern Mississippi-Natchez is an upper level and graduate institution, admission to degree programs is open to students who have attained junior standing. However, students who have not attained junior standing and meet other requirements for admission to the University may be admitted on a per course basis as special students. In other respects, admission requirements are identical with these outlined earlier in this **Bulletin.** Transcripts and completed applications should be sent to the Director of Admissions and Records, USM-Natchez, Natchez, MS 39120.

Course Load

Undergraduate students may enroll at USM-Natchez for a maximum of six (6) semester hours per quarter.

Residency Requirements

The following regulations serve in lieu of residence hours requirements for USM-

1. At least thirty-two (32) semester hours of credit must be earned at one, or a combination of, the University's three degree-granting campuses.
2. At least nine (9) of these thirty-two hours must be earned in the students major field.
3. At least sixteen (16) of these thirty-two hours (exclusive of student teaching) must be taken at the USM-Natchez campus.

Honors

In keeping with USM-Natchez's status as a part-time institution, special policies have been formulated in order to accord official recognition to part-time students who achieve outstanding academic record. **Dean's List:** Students will be placed on the quarterly USM-Natchez Dean's List if they attain a quality point ratio of 3.25 or above on an academic load of not less than six (6) semester hours.

Degrees with Honors: Students with exceptional academic records may be awarded degrees with honors or with highest honors. The residence requirements for such degree is not less than five (5) quarters with a load of not less than six (6) semester hours of credit each quarter and totaling not less than fifty-four (54) semester hours of credit with the University of Southern Mississippi. A degree with honors will be granted to a student who maintains a quality-point average of 3.5 or more. A degree with highest honors will be granted to a student who maintains a quality-point average of 3.8 or more.

Supporting Programs

In addition to offering degree programs in the areas mentioned above USM-Natchez regularly schedules courses in support of many degrees offered only through the Hattiesburg campus, thereby enabling a student to earn a portion of his degree requirements locally.

Advisement

For the student's own protection, it is imperative that all program planning be accomplished in consultation with official academic advisers. A student pursuing a degree at USM-Natchez should consult with the departmental coordinator who is in charge of that degree program. Students pursuing degrees at the USM-Hattiesburg campus should consult with a professional adviser in their respective degree areas on that campus.

SPECIAL DEGREE PROGRAMS

Associate Degree in Nursing (NUR-095)

Flora Posey, Director

Ballard, Hall, * Keith, B. Pierce, Priest, Spivey

The Associate Degree Nursing Program of the University of Southern Mississippi-Natchez was organized in 1964 in response to a request from community leaders that the University provide a program which would prepare registered nurses for Natchez and the surrounding area. The first Associate of Science in Nursing degrees were awarded in 1966.

The Nursing Program is two academic years and one summer session in length. On approval of the director of the Department of Nursing, a student may, if circumstances so warrant, extend the program, taking some of the non-nursing courses prior to enrolling in the nursing sequence. Upon completion of the Program a graduate is awarded an Associate of Science in Nursing degree, is eligible to write the Mississippi State Board Test Pool Examination for licensure as a registered nurse, and is prepared to function with intellectual comptency, in cooperation with the health team, in instituting appropriate and effective nursing intervention.

* Leave of absence 1975-1976

Purpose

The purpose of the Nursing Program is to provide for the community beginning practitioners of nursing who possess the scientific knowledge, understanding, and fundamental skills to administer direct nursing care to patients having common, recurring problems and to supervise other personnel in the technical aspect of nursing care under professional supervision.

Accreditation and Agency Membership

The Nursing Program is fully approved by the Board of Trustees of State Institutions of Higher Learning and holds membership in the Department of Associate Degree Programs of the National League for Nursing.

Admission

Applicants for admission to the Associate Degree Nursing Program must fulfill the general requirements as described in the admission section of the **Bulletin.** Any exception made, due to unusual circumstances, must be recommended by the director of Department of Nursing, and approved by the admissions officer of the University. In addition, the applicant must meet other requirements including completion of an application for admission to the Nursing Program, acceptable performance on a nursing aptitude test, presentation of satisfactory personal references, evidence of satisfactory health status, and required immunizations and health tests. A pre-entrance interview is required.

Promotion and Graduation Policies

Students must maintain a 2.0 quality point average in the natural and behavioral sciences—biology, physical science, psychology, and sociology. A grade of **C** or better must be achieved in both theory and clinical laboratory in each course in nursing. For promotion to the second year a student must have achieved a minimum quality point average of 1.8. A minimum quality point average of 2.0 is required for graduation.

Evidence of the development of qualities considered by the faculty in nursing to be essential for the safe practice of nursing must be demonstrated. A student failing to show evidence of the development of these qualities will be requested to withdraw from the program.

Advanced Placement

Students may attain advanced placement according to policies in the general **Bulletin** insofar as they relate to the Associate Degree Nursing Program. Qualified students may challenge for the first six hours of nursing. Information relative to qualifying criteria may be obtained from the Department of Nursing and The Office of Admissions.

Student Advisement

The faculty in nursing is responsible for the academic advisement of students. Courses should be pursued in listed sequence unless otherwise approved by the director.

Financial Aid

Application for student loans and scholarships may be secured from the office of the Department of Nursing, and, upon completion, forwarded to the Director of Student Aid and Scholarships on the Hattiesburg campus. Local student aid may be processed through the Nursing Office.

Housing and Transportation

Since dormitory facilities are not provided, each student makes her own living and/or transportation arrangements. The student is responsible for transportation to off-campus hospitals and other agencies constituting a part of the program.

Expenses

Tutition is the same for students of nursing as for other University of Southern Mississippi-Natchez students.

Additional expenses incurred by nursing students for such items as uniforms, books, insurance, nursing organization fees, etc., are variable, and estimates may be obtained from the Nursing Office.

Curriculum

The Associate of Science in Nursing degree is awarded upon successful completion of the required program of study. Courses in physical, biological, social, and behavioral science and the humanities provide foundation and support for the nursing courses. The nursing courses combine theory and clinical laboratory in a related sequence.

A student pursuing the course of study for an Associate of Science in Nursing degree must complete seventy-eight (78) semester hours including forty-three (43) hours in nursing.

First Year

Fall Qtr.	Hours	Winter Qtr.	Hours	Spring Qtr.	Hours
BIO 220	3	BIO 221	3	ENG 101	3
FS 105	3	F&N 360	2	MIC	3
* NUR 101	6	NUR 102	4	NUR 103	4
		PSY 101	3	PSY 375	3
	12		12		13

Summer Quarter	Hours
NUR 104	5

Second Year

Fall Qtr.	Hours	Winter Qtr.	Hours	Spring Qtr.	Hours
NUR 201	7	ENG 102	3	NUR 203	7
SOC 101	3	History Elective	3	NUR 205	3
		NUR 202	7	PA 111	3
	10		13		13

* Individuals meeting requirements may challenge for credit.

NURSING (NUR–095)
(Natchez Campus)

101–**Nursing Science I.** 6-4.5-13-**F.** Orientation to nursing. Concepts of health. Interpersonal and nursing skills focused on promotion of individual and community health.

102–**Nursing Science II.** 4-3-9-**W.** Nursing skills and roles in facilitating the founding or expanding family's adaptation to stress in the maternity cycle.

103–**Nursing Science III.** 4-3-0-**S.** Concepts of illness. Body's reaction and coping mechanisms. Maintenance of the body in dynamic equilibrium.

104–**Nursing Science IV.** 5-7-22-**Su.** Continuation of NUR 102, stressing nutritional and excretory processes in maintaining homeostasis.

201–**Nursing Science V.** 7-6-13-**F.** Focuses on the concept of mobility as related to neuromuscular-skeletar dysfunctions and maladapted behavior.

202–**Nursing Science VI.** 7-6-13-**W.** Focus on factors resulting in sensory and regulatory interferences.

203–**Nursing Science VII.** 7-6-13-**S.** Emergency and disaster nursing. Team nursing concepts.

205–**Nursing Seminar.** 3-4-0-**S.** Trends and issues in nursing.

Bachelor of Science in Business Administration
(with the major in General Business)
Lindecamp, Parks–Coordinators

The degree of Bachelor of Science in Business Administration with the major in General Business is awarded by the University of Southern Mississippi, Natchez. Students are prepared to perform proficiently in beginning level managerial jobs, to think critically through problems that the beginning business manager will confront, and to contribute to society as productive, informed citizens.

Purposes

American society is increasingly aware of the growing need for managerial skills. The Bachelor of Science in Business Administration with the major in General Business is designed to prepare competent managers for business, for government, and for other

non-profit organizations. To adapt himself to the technological and organizational changes which he will inevitably confront as a manager, the student is taught to think critically and analytically. He is prepared not only for proficiency as a beginning manager, but for professional growth and increasing competence throughout his career. Courses taken in liberal arts and scientific disciplines further prepare the student for his role as productive citizen by creating an appreciation for the enriching, cultural aspects of daily living.

Accreditation

The Bachelor of Science in Business Administration with the major in General Business is, as are all other programs of the University of Southern Mississippi-Natchez, operated under the auspices of the Southern Association of Colleges and Secondary Schools.

Student Advisement

The Departmental Coordinator in Business Administration is responsibile for the academic advisement of students.

Expenses

Tuition is the same for Business Administration students as for all other students at USM-Natchez.

CURRICULUM

Business Administration courses at the University of Southern Mississippi-Natchez are limited to upper division and graduate courses. These are offered to part-time, commuting students of the Natchez region. Because of this limitation, the freshman and sophomore years' work must be completed elsewhere. (Offerings of the Copiah-Lincoln Junior College's Natchez campus will fill this need.) The required freshman and sophomore level courses, which must be completed elsewhere, are as follows:

	Hours
Accounting Principles	6
Business Law	3
Computer Programming	3
Economics Principles	6
English Composition	6
Health	3
Mathematics	6
Mathematics **or** Science Elective	3
Physical Education	2 or 3
Psychology	3
Public Address	3
Science	6
Sociology	3
Total	53 or 54

The junior and senior level courses, which allow a concentration in accounting, economics, finance, management, or marketing are offered at USM-Natchez as follows:

Business Administration Courses	**Hours**
ACC 300—Administrative Accounting	3
ECO 301—Elementary Statistics, I	3
ECO 302—Elementary Statistics, II	3
ECO 330—Money and Public Policy	3
One other economics course at the junior or senior level	3
FIN 389—Business Finance	3
FIN 480—Financial Management	3
GBA 375—Managerial Communications	3
One other finance, general business administration, or real estate and insurance course at the junior or senior level	3

MGT 360—Fundamentals of Management 3
MGT 364—Personnel Management, **or**
MGT 454—Human Relations 3
MGT 485—Administrative Policy 3
One other management course at the junior or senior level 3
MKT 300—Principles of Marketing 3
MKT 428—Marketing Management 3
One other marketing course at the junior or senior level 3
Field emphasis: Two courses from one of the above fields 6
One other course from any of the above fields 3

Total 57

Other Courses	**Hours**
American Literature (ENG 370 and 371), or British Literature (ENG 350 and 351)	6
Fine Arts elective (ART 332, 333, 334 or 335), or one other language or literature course	3
History electives, two courses	6
Geography or Political Science elective	3
Total	18

Total hours in the program 128

DIVISION OF EXTENSION AND PUBLIC SERVICE

Clyde N. Ginn, Dean

The Division of Extension and Public Service enables the University to extend its resources of knowledge, skills, and artistry to all who seek to profit from them. This is accomplished through the operation of the Departments of Independent Study, Conferences and Workshops, and Community Services and Programs. In addition, courses are scheduled throughout the state which are designed to provide for the needs of individual populations.

DEPARTMENT OF INDEPENDENT STUDY

The Department of Independent Study offers approximately one hundred courses which may be taken for University credit. These courses count for regular credit in the University and for approved credit on State Certificates for Teaching. As many as thirty-three (33) semester hours (no more than nine (9) in any one academic area) of the total 128 hour baccalaureate degree requirements may be earned in independent study courses, subject to the provisions outlined in detail in the Department of Independent Study 1975-1976 **Bulletin.**

Independent study courses are particularly suited to the needs of the student who wishes to move at his own rate, and for the student who is unable to attend a university. These courses allow the student to earn credit through the advantages of home study.

A complete high school curriculum is available through independent study, and courses are acceptable as entrance credits by the University. A High School Independent Study Catalog is available on request.

For further information, contact:

Director, Department of Independent Study
University of Southern Mississippi
Southern Station, Box 56
Hattiesburg, Mississippi 39401

DEPARTMENT OF CONFERENCES AND WORKSHOPS

Joseph E. Tinnon, Director

The Department of Conferences and Workshops has the responsibility of coordinating the administrative and logistical details for all credit and non-credit conferences, institutes, workshops, clinics, camps, and special training program activities, sponsored by the University. This department stands ready at all times to assist University departments, and educational, professional, business, and industrial groups in setting up conferences, institutes, workshops, or special training programs.

Either academic credit or continuing education unit (c.e.u.) credit may be awarded for conference, institute, or workshop attendance, provided the activity is offered through an existing course number or is given prior approval by the appropriate University council. The number of contact hours necessary for a three semester hour credit activity is equivalent to the number of contact hours necessary for satisfactory completion of a regular on-campus course. Activities awarding graduate credit are required to conform to special credit policies established by the Graduate Council.

Conveniently located and comfortable building facilities are available on or near the three University campuses and near the Universities' Center in Jackson for groups of any size. Meals and housing in air-conditioned facilities, all at nominal rates, are also available to individuals participating in both credit and non-credit programs at Hattiesburg and Gulf Park campuses. Additional conveniences include the location of motels, restaurants, shopping centers and recreational facilities within walking distance.

DEPARTMENT OF COMMUNITY SERVICES AND PROGRAMS

B. Glynn Rawson, Director

The Department of Community Services is set up to aid individuals, both university and non-university, in tapping the resources of the University in non-credit programs. Non-credit special interest classes are organized on the University's campuses. The department also assists groups and organizations who request the use of University facilities for meetings or other special non-credit activities. Other services provided by this department include assisting outside organizations such as high schools, junior and senior colleges, civic organizations, etc., in obtaining University talent. This talent may take the form of speakers, dramatic and musical groups, and many of the other resources representative of the University.

Recently instituted into the department's offerings is a Listener's License program, whereby individuals may "sit-in" on regular University courses on a non-credit basis without actively participating in the class and without being required to complete class requirements.

The Department of Community Services and Programs serves as the statewide coordinator for The Great Decisions Program, sponsored nationally by The Foreign Policy Association. Great Decisions is an annual program of discussion among citizens meeting informally to discuss key foreign policy topics of critical importance to the United States.

FIELD SERVICES

C. Michael Oliver, Director

The Department of Field Services is charged with the responsibility of organizing and administering all regular courses taught off-campus in locations other than the degree-granting centers of Gulf Park and Natchez. Such courses fall into three categories (1) courses that comprise in-service training programs for various school systems; (2) refresher courses for various professional areas; (3) general interest of special interest courses. The purpose of Field Services is to offer additional educational opportunities to those individuals who have a desire to pursue particular studies apart from or beyond degree sequences and to those individuals with professional skills that require updating and upgrading.

UNIVERSITY OF SOUTHERN MISSISSIPPI-JACKSON

Brantley Greeson, Director

The University offers courses at the Universities' Center in Jackson as part of a cooperative program with other state universities. Because of the cooperative effort, USM-Jackson is on a regular semester calendar. Two semesters and one summer session comprise the yearly schedule. For information about offerings write:

USM-Jackson
The Universities' Center
1855 Eastover Drive
Jackson, MS 39211

or

Division of Extension
and Public Service
Box 55, Southern Station
Hattiesburg, MS 39401

COURSE DESCRIPTIONS

INDEX OF ABBREVIATIONS FOR FIELDS OF INSTRUCTION

AA	Allied Arts
AAC	Athletic Administration and Coaching
ACC	Accounting
ACT	Architectural Technology
AED	Educational Administration and Supervision
AMS	American Studies
ANT	Anthropology
AOS	Aerospace Studies
APM	Applied Music
ARE	Art Education
ART	Art
AST	Astronomy
BCT	Building Construction Technology
BED	Business Education
BIO	Biology
CD	Child Development
CGE	Counseling and Guidance
CHE	Chemistry
CIA	Adult Education
CIE	Elementary Education
CIF	Educational Foundations
CIS	Secondary Education
CJ	Criminal Justice
CLT	Comparative Literature
COM	Communication
CSS	Computer Science and Statistics
CT	Clothing and Textiles
ECO	Economics
ENG	English
EPY	Educational Psychology
ESC	Environmental Technology
EVD	Environmental Design
FIN	Finance
FL	Foreign Languages
FN	Food and Nutrition
FS	Fundamentals of Science
FST	Food Science and Technology
GBA	General Business Administration
GEN	Genetics
GHY	Geography
GLY	Geology
HEE	Home Economics Education
HHM	Housing and Home Management
HIS	History
HRA	Hotel and Restaurant Administration
HTH	Health; see also Athletic Administration and Coaching
IAD	Institution Administration
INT	Industrial Technology
IVE	Industrial and Vocational Education
JOU	Journalism
LS	Library Science
MAT	Mathematics
MED	Music Education
MET	Mechanical Technology
MFL	Marriage and Family Life
MGT	Management
MIC	Microbiology
MKT	Marketing
MS	Military Science
MTC	Medical Technology
MUS	Music
NSG	Nursing
OHC	Honors Center
PA	Public Address
PED	Physical Education; see also Athletic Administration and Coaching
PHI	Philosophy
PHY	Physics
PS	Political Science
PSC	Polymer Science
PSY	Psychology
REC	Recreation
RED	Educational Research Training
REI	Real Estate and Insurance
REL	Religion
RTF	Radio-Television-Film
SCE	Science Education
SCI	Science
SHS	Speech and Hearing Science
SOC	Sociology
SWK	Social Work
SPE	Special Education
TEC	Technology
THE	Theatre Arts
THY	Therapy

EXPLANATION

The numerical listing after the course title gives the following information: **first number, semester credit hours; second number, lecture hours per week; third number, laboratory hours per week; F** (Fall), **W** (Winter), **S** (Spring), **Su** (Summer), **Q** (Quarterly), **X** (As Needed)*, **F,** 1976 (will be offered Fall, 1976).

Example:
201– **Principles of Accounting I.** 3-4-0-**Q.** (3 semester hours credit, 4 hours lecture per week, no laboratory, Quarterly).
Some courses (such as Student Teaching) require many hours of outside work. These courses are listed as: 9-0-0, meaning that the hours of classwork may be in or out of a classroom.

*X quarters should be checked carefully with department chairman.

ACCOUNTING (ACC–605)

201–**Principles of Accounting I.** 3-4-0-**Q.** An introduction to financial information systems. The function of accounting is illustrated through the development of concepts and methods, data collection, analysis, and reporting of financial information.

202–**Principles of Accounting II.** 3-4-0-**Q.** Prerequisite: ACC 201. A continuation of ACC 201. Emphasis is placed on the preparation and analysis of general purpose financial statements for use primarily by stockholders, creditors and others outside the organization.

204–**Principles of Accounting**–Accelerated. 6-8-0-**X.** A combination of ACC 201 and ACC 202. Taken in lieu of ACC 201 and ACC 202 but not in addition to either.

300–**Administrative Applications of Accounting.** 3-4-0-**Q.** Prerequisite: ACC 202. The use of financial information for administrative decision making within the firm. Emphasis is placed on the flow of resources and obligations and the accounting for the production function including input controls and cost/volume/profit relationships.

301–**Intermediate Accounting I.** 3-4-0-**Q.** Prerequisite: ACC 202. An intensive study of financial statement theory and preparation.

302–**Intermediate Accounting II.** 3-4-0-**Q.** Prerequisite: ACC 301. A continuation of ACC 301.

304–**Intermediate Accounting–Accelerated.** 6-8-0-**W.** Prerequisite: ACC 202. A combination of ACC 301 and ACC 302. Taken in lieu of ACC 301 and ACC 302 but not in addition to either.

320–**Elementary Cost Accounting.** 3-4-0-**Q.** Prerequisite: ACC 202. A study of cost accounting systems and methods.

330–**Federal Income Tax Accounting I.** 3-4-0-**Q.** Prerequisite: ACC 301. The legal environment of business as affected by the federal income tax law and regulations, applicable principally to individuals.

401–**Advanced Accounting I.** 3-4-0-**Q.** Prerequisite: ACC 302. A continuation of ACC 302.

402–**Advanced Accounting II.** 3-4-0-**Q.** Prerequisite: ACC 401 or consent of instructor. A continuation of ACC 401.

405–**Current Accounting Theory and Research.** 3-4-0-**Q.** Prerequisite: ACC 320, 402, 409 or consent of instructor. A study of the accounting literature with emphasis on contemporary problems.

409–**Auditing.** 3-4-0-**Q.** Prerequisite: ACC 302. An introduction to the financial statement attest function.

420–**Advanced Cost Accounting and Budgeting.** 3-4-0-**Q.** Prerequisite: ACC 320. A continuation of ACC 320 with emphasis on cost analysis for decision making.

430–**Federal Income Tax Accounting II.** 3-4-0-**F,W,S.** Prerequisite: ACC 330. The legal environment of business as affected by the federal income tax law and regulations, applicable to individuals, corporations, partnerships, estates, and trusts.

450–**Accounting Systems.** 3-4-0-**X.** Prerequisite: ACC 302. A study of the alternative methods of collecting accounting data.

480—**CPA Law Review.** 3-4-0-S. Prerequisites: FIN 311 and 24 hours of accounting beyond principles. A study of topics covered on the law section of the uniform CPA examination. Will not satisfy the three-hour accounting elective.

492—**Research in Accounting Problems.** 1-3 hrs. arr. Q. Prerequisite: Senior standing and consent of instructor. Individual research on an approved topic of interest to the student.

ADULT EDUCATION (CIA—110)

440—**Methods and Materials in Adult Education.** 3-4-0-X. Reviews the uses and adaptation of various materials and techniques for teaching adults. Relates content and methods.

441—**Foundations of Reading Instruction for the Adult.** 3-4-0-X. Examines the basis of reading instruction in relation to the needs and characteristics of the non-literate adult.

442—**Methods and Materials for Teaching Adults to Read.** 3-4-0-X. Materials, diagnostic and evaluative procedures, and laboratory experiences will be included.

445—**Teaching the Disadvantaged Adult.** 3-4-0-F. Characteristics, needs and problems are related to programs and procedures found to be successful.

490—**Special Problems in Adult Education.** 3-4-0-X. May be arranged for an individual or a group with common interests. Permission of the department chairman required.

494—**Student Teaching in Adult Education.** 9-0-0-Q. Prerequisite: CIA 440 or 441 or 442 or IVE 431 or 435. For students who plan to teach in an adult education program or a post-secondary vocational center and who are not presently employed in such a program.

495—**Internship in Adult Education.** 9-0-0-F. A nine-months' supervised experience for practicing teachers of adults. Offered fall through spring only.

AEROSPACE STUDIES (AOS—202)

First-Year Aerospace Studies

101—**General Military Course.** 1-1-1-F,X. A beginning course to introduce the student to the Air Force ROTC Program and the contemporary Air Force.

102—**General Military Course.** 1-1-1-W,X. Examines the functions and employment of U. S. Strategic Offensive and Defensive Forces.

103—**General Military Course.** 1-1-1-S,X. Examines the functions and employment of U.S. General Purpose and U.S. Aerospace Support Forces.

Second-Year Aerospace Studies

201—**The Developmental Growth of Air Power.** 1-1-1-F,X. Focuses upon a variety of events and personalities contributing to the development of air power as a primary element of national security.

202—**The Developmental Growth of Air Power.** 1-1-1-W,X. Examines the concepts of employing air power and factors which have prompted research and technological change.

203—**The Developmental Growth of Air Power.** 1-1-1-S,X. Examines the changing mission of the defense establishment, emphasizing the impact of air power on strategic thought.

Third-Year Aerospace Studies

301—**National Defense Forces in Contemporary American Society.** 3-4-1-F,X. Examines the role and function of the professional military within a democratic society.

302—**National Defense Forces in Contemporary American Society.** 3-4-1-W,X. Focuses on the prerequisites for maintaining adequate national security forces.

303—**National Defense Forces in Contemporary American Society.** 3-4-1-S,X. Studies the fundamental processes of institutional structures involved in the formulation and implementation of U. S. Defense policies.

Fourth-Year Aerospace Studies

401—**Military Leadership and Discipline.** 3-4-1-F,X. Examines the basic concepts of leadership as related to the duties of an Air Force officer.

402—**Leadership and Management Skills.** 3-4-1-W,X. Examines the responsibility, authority, and functions of the Air Force commander and his staff.

403—**Military Management and Pre-Commissioning.** 3-4-1-S,X. Examines the basic concepts of management as related to the duties of an Air Force officer; to include communications security.

404—**Flight Instruction Program.** 2-5-0-X. Prerequisite: AOS 303 or permission of the instructor. Includes instructions in principles of flight, weather, navigation and Flight Instruction for qualified students.

ALLIED ARTS (AA—655)

100—**Introduction to the Arts.** 3-4-0-Q. An overview of the fine arts with examination, through team teaching, of the nature of musical, plastic, and theatrical art forms.

AMERICAN STUDIES (AMS—204)

304—**Issues in America.** 3-4-0-X.

403—**Seminar in American Studies.** 3-4-0-W.

492—**Special Problems.** 1-3 hrs. arr. X.

ANTHROPOLOGY (ANT—286)

REL 434—**Primitive Religion,** may also be offered by students as credit towards a major or minor in anthropology.

101—**General Anthropology.** 3-4-0-Q. A beginning course in anthropology stressing the origin and the evolution of man, culture, and society.

212—**Cultural Anthropology.** 3-4-0-Q. A comparative approach to the analysis of human cultural and social diversity. Includes an outline survey of world culture areas.

301—**Physical Anthropology.** 3-4-0-W,Su. Origin and description of the diverse races of man.

304—**Introduction to Archeology.** 3-4-0-F,S. Methods and findings of archeological research. Students will also have the opportunity to participate in a local "dig."

311—**Language and Culture.** 3-4-0-F. Origin and inter-relationship of the major languages of the world.

312—**Peoples and Cultures of Europe.** 3-4-0-S. Ethnology of Europe and the adjacent North African and Middle Eastern territories.

313—**Peoples and Cultures of Africa.** 3-4-0-F. An ethnological survey of the major culture areas of the African continent with particular reference to Sub-Saharan Africa.

314—**Peoples and Cultures of the Orient.** 3-4-0-S. Ethnological survey of Asia, Oceania, and Australasia.

315—**Peoples and Cultures of the Americas.** 3-4-0-W. Ethnological survey of the Americas stressing pre-Columbian and North American Indian cultures.

316—**Biblical Archeology.** 3-4-0-X. A survey of ancient Near Eastern peoples and cultures as reconstructed by anthropology and archeology.

320—**Urban Anthropology.** 3-4-0-W. Origin, evolution, and problems of urban communities including a survey of the techniques employed by urban anthropologists.

411—**Comparative Indo-European Studies.** 3-4-0-W. A comparative survey emphasizing the effective interpretation of archeological, historical, linguistic, and mythological data.

412—**Mythology and Folklore.** 3-4-0S. A survey of the major folklore traditions.

413—**Anthropological Theory.** 3-4-0-W. A general survey of the history of anthropological thought and of the major contemporary schools of anthropological theory.

414—**Methods and Field Work in Archeology.** 3-2-2-S. Methodology and techniques of archeological field work including participation in organized field projects.

420—**Culture and Ethnicity.** 3-4-0-S. An analysis of culture and ethnicity with special reference to the problem of modernization.

425—**Seminar in Anthropology.** 3-4-0-S. Guided research and discussion for anthropology majors.

492—**Special Problems.** 1-3 hrs. arr. X. A problem study to be approved by the department chairman.

ARCHITECTURAL TECHNOLOGY (ACT—392)

304—**Electrical Systems.** 3-4-0-X. Design, installation, and performance of electrical equipment for residential and commercial buildings.

305—**Mechanical Systems.** 3-4-0-X. Prerequisite: ACT 304. Design, installation, and performance of mechanical equipment.

351—**Architectural Design I.** 3-2-4-X. Analysis and solutions to problems in design of residential and/or vacation houses or the remodeling of same.

352—**Architectural Design II.** 3-2-4-X. Prerequisite: ACT 351. Design problems related to apartment complexes, fraternity and sorority houses.

353—**Architectural Design III.** 3-2-3-X. Prerequisite: ACT 352. Design problems related to motels and restaurants.

358—**Architectural Landscaping.** 3-4-0-X. A study of elements and principles as related to site planning and the external environment.

375—**Statics.** 3-4-0-X. Prerequisites: PHY 105, MAT 131, 133. Study of force systems, rigid bodies, center of gravity, moments of gravity, inertia, etc., as applied to architecture and engineering technology.

376—**Strength of Materials.** 3-4-0-X. Prerequisites: PHY 101, MAT 133, ACT 375. Analysis of fundamental structural principles and application of mathematics to structural theory.

377—**Structural Design.** 3-4-0-X. Prerequisite: ACT 376. Study of shear and bending moments. torsion, deflection, design of beams, columns, trusses, struts, etc.

393—**Architectural Rendering.** 3-2-4-X. The visual expression of architectural principles and structures. Will include perspectives, shades, shadows, colors, etc.

394—**Office Practice and Specifications.** 3-4-0-X. The study of client and contractor relationship, office management and legal requirements, contracts, bids, and specifications.

395—**Surveying.** 3-2-3-X. Theory and practice in use of instruments for measuring distances, angles, etc., as applied in architecture and construction.

451—**Architectural Design IV.** 3-2-3-X. Prerequisite: ACT 353. Design problems related to office buildings and stores.

452—**Architectural Design V.** 3-2-3-X. Prerequisite: ACT 451. Design problems related to churches and religious education buildings.

453—**Architectural Design VI.** 3-2-3-X. Prerequisite: ACT 452. Design problems related to doctor's offices, medical clinics, and hospitals.

454—**Architectural Design VII.** 3-2-3-X. Prerequisite: ACT 453. Design problems related to school buildings; includes administrative offices, academic classrooms, laboratories, and shops.

455—**Architectural Design VIII.** 3-2-3-X. Prerequisite: ACT 454. Design problems related to shopping centers.

456—**Architectural Design IX.** 3-2-4-S. Prerequisite: ACT 455. Design problems related to campus, urban, and city planning.

ART (ART—660)

** Permission of instructor necessary)

101—**Drawing I.** 3-2-6-Q A study of the possibilities of drawing as the expression of a variety of ways of seeing and thinking.

102—**Drawing II.** 3-2-6-X Prerequisite: ART 101*. A continuation of ART 101.

103—**Drawing III.** 3-2-6-X. Prerequisite: ART 102*. A continuation of ART 102.

111—**Design I.** 3-2-6-Q. A study of the basic elemental relationships, plastic intergration factors, principles, and the ordering of them toward expression.

112—**Design II.** 3-2-6-X. Prerequisite: ART 111.* A continuation of the study of design with color theory and practice.

113—**Design III.** 3-2-6-X. Prerequisite: ART 112.* A continuation of the study of design emphasizing form/space structure and the movement from 2-D to 3-D space.

131—**Theoretical Foundations.** 3-4-0-Q. A study of the scope and nature of the plastic expressions with some bases for criticism.

201—**Figure Drawing I.** 3-2-6-Q. Prerequisite: *. Study of the structure and anatomy of the human figure. Drawing and study from the figure.

202—**Figure Drawing II.** 3-2-6-Q. Prerequisite: *. Advanced study from the human figure involving composition and sustained drawings.

203—**Figure Drawing III.** 3-2-6-Q. Prerequisite: *. Advanced drawing from the figure involving composition, expression and personal vision.

221—**Technical Foundations for Painting.** 3-2-6-Q. Prerequisites: ART 103 and 113 *. Experimental problems with traditional painting media and techniques.

301—**Drawing.** 3-2-6-X. Prerequisite: ART 103*. Expressive use of a variety of perspective systems.

304—**Workshop in Drawing.** 1-3-2-6-X. A variety of drawing experiences which may be pursued by students at various levels. May not be used toward the major or minor.

305—**Graphic Arts I.** 3-2-6-F. Prerequisites: ART 103 and 113. A study of techniques and design for linoleum-cut, wood-cut, wood-engraving, and seriography.

306—**Graphic Arts II.** 3-2-6-W. Prerequisite: ART 305. A study of techniques and design for intaglio. (Line-engraving, dry-point, and etching.)

307—**Graphic Arts III.** 3-2-6-S. Prerequisite: ART 306. A study of techniques and design for lithography.

311—**Design.** 3-2-6-**Q.** Prerequisite: ART 113*. Studio problems in design, emphasis individual student needs.

312—**Design.** 3-2-6-**Q.** Prerequisite: ART 113*. Studio problems in design, emphasis individual needs.

313—**Design.** 3-2-6-**Q.** Prerequisite: ART 113*. Advanced studio problems in design.

321—**Painting I.** 3-2-6-**Q.** Prerequisite: ART 221*. Introduction to problematic study of form in painting.

322—**Painting II.** 3-2-6-**Q.** Prerequisites: ART 221*. Advanced problematic study of form in painting.

323—**Painting III.** 3-2-6-**Q.** Prerequisites: ART 221*. Advanced problematic study of painterly form moving toward an introduction to personal expression.

324—**Workshop in Painting.** 1-3-2-6-**X.** A variety of painting experiences which may be pursued by students at various levels. May not be used toward the major or minor.

331—**Directed Museum and Gallery Tour.** 1-**X.** An elective addendum to ART 131. Field trip and tour of a number of galleries and museums for the viewing of original works.

332—**History of Art I.** 3-4-0-**F.** Ancient art. A survey course.

333—**History of Art II.** 3-4-0-**W.** Medieval art. A survey course.

334—**History of Art III.** 3-4-0-**S.** Renaissance and Baroque art. A survey course.

335—**History of Art IV.** 3-4-0-**Q.** Nineteenth and twentieth century art. A survey course.

341—**Commercial Techniques I.** 3-2-6-**F,Su.** Prerequisites: ART 103 and 113*. Recommended for those interested in any form of commercial art. The rendering of objects and materials for commercial presentation.

342—**Commercial Techniques II.** 3-2-6-**W,Su.** Prerequisites: ART 103 and 113*. Hand and precision lettering and advertising and show card layout.

343—**Commercial Techniques III.** 3-2-6-**S.** Prerequisites: ART 341, 342*. A study of commercial illustrative techniques and their application to a variety of layout problems.

344—**Illustration.** 3-2-6-**Q.** Study of photographic illustration. Problems and techniques involving the relation of the medium to the subject.

351—**Three Dimensional Techniques.** 3-2-6-**Q.** Prerequisite: ART 113. Experimental and traditional techniques in the manipulation of clay and plaster, including cold casting operations.

352—**Three Dimensional Techniques.** 3-2-6-**Q.** Prerequisite: ART 113. Experimental and traditional techniques in manipulation of metal and wood for expressive purposes.

421—**Painting IV.** 3-2-6-**Q.** Prerequisites: ART 323*. A personal search in painting. Class discussion and criticism.

422—**Painting V.** 3-2-6-**Q.** Prerequisites: ART 421*. Advanced development of a personal language and statement in painting.

423—**Painting VI.** 3-2-6-**Q.** Prerequisites: ART 421. A sustained individual effort in painting leading to the independent work of the senior project.

428—**Painting Project.** 3-2-6-**Q.** Prerequisites: ART 422, 423*. Independent expressive problem in painting culminating with an exhibition.

431—**Ancient Art.** 3-4-0-X. Prerequisite: ART 332. The artistic achievements of the ancient world. A careful analysis of important examples correlated with their background.

432—**Medieval Art.** 3-4-0-X. Prerequisite: ART 333. A study of the art of the western civilizations from the fall of the Roman Empire to the end of the fourteenth century.

433—**Renaissance Art.** 3-4-0-X. Prerequisite: ART 333. The art of Italy, France, Germany, Spain, and the Low Countries from the close of the Middle Ages through the sixteenth century.

434—**Baroque and Rococo Art.** 3-4-0-X. Prerequisite: ART 333 and 334. The tracing of these movements through the western world from the close of the sixteenth through the eighteenth century.

435—**Nineteenth Century Art.** 3-4-0-X. Prerequisite: ART 334, An analysis of Neo-Classicism, Romanticism, and Impressionism.

436—**Twentieth Century Art.** 3-4-0-X. Prerequisite: ART 334. An analysis of Fauvism, Cubism, Futurism, Surrealism, and Expressionism.

441—**Graphic Communication I.** 3-2-6-F,Su. Prerequisite: ART 343 *. Practical problems in advertising design, with particular attention to modern reproduction methods.

442—**Graphic Communication II.** 3-2-4-W,Su. Prerequisite: ART 441. A continuation of ART 441 including a study of color separation techniques and typographic experiments.

443—**Graphic Communication III.** 3-2-4-S,Su. Prerequisite: ART 442. A continuation of ART 442, with particular emphasis on professional procedure.

448—**Graphic Communication Project.** 3-2-4-Q. Prerequisite: ART 443 *. Full quarter series or unit project in advertising design and presentation involving considerable research. Seminar.

451—**Three Dimensional Expression.** 3-2-4-Q. Prerequisites: ART 351 and/or 352. Aesthetic problems in three dimensional expression, emphasis clay or plaster.

452—**Three Dimensional Expression.** 3-2-4-Q. Prerequisite: ART 351 and/or 352. Aesthetic problems in three dimensional expression, emphasis wood, metal, or plastics.

453—**Three Dimensional Expression.** 3-2-4-Q. Prerequisite: ART 351 and/or 352. Problems in three dimensional expression involving utilitarian considerations, emphasis clay.

454—**Three Dimensional Expression.** 3-2-4-Q. Problems in three dimensional expression involving utilitarian considerations, emphasis wood, metal, or plastics.

458—**Three Dimensional Design Project.** 3-2-4-Q. Prerequisites: ART 452 and 454. Full quarter series or unit project in three dimensional expression involving considerable research. Seminar.

ART EDUCATION (ART—665)

207—**Introductory Art.** 3-1-2-Q. For non-art majors. Fundamentals of lettering, drawing, perspective light and shade, color theory, design, and display techniques.

309—**Elementary School Art.** 3-1-2-Q. Prerequisite: ARE 207 (elementary education majors); ART 101 and ART 111 (art education majors). An application of art theory and techniques to the elementary classroom situation.

310—**Public School Art.** 3-1-2-F. Prerequisite: ARE 309. An application of art theory and techniques to the secondary classroom situation.

320—**Directed Tour of Exemplary Art Education Programs.** 3-3-0-X. Prerequisite: ARE 309 or 310. A course designed to give the art education major a chance to observe exemplary art education programs in operation in the U.S. or abroad.

392—**Special Projects for Teachers I, II.** 2-1-1-**X.** Prerequisite: ARE 207. Projects in art and methods of presentation to children in the elementary grades. Need not be taken in sequence.

412—**Craft I.** 3-1-2-**F.** Prerequisite: ART 113. A study of the techniques and problems involved in the creation and design of jewelry.

413—**Crafts II.** 3-1-2-**F,W.** Prerequisite: ART 113 or ARE 412. A continuation of ARE 412 with emphasis in lapidary work.

414—**Crafts III.** 3-1-2-**W,S.** Prerequisite: ART 113 or ARE 412. A study of the techniques and problems involved in the creation and design of various fabrics with fibrous materials.

415—**Trends in Current Plastic Expression.** 3-1-2-**Su.** A course designed to keep the student abreast of current trends in the plastic arts.

420—**Adapting Selected Current Art Trends.** 3-2-1-**X.** Prerequisite: ARE 207 Art trends are identified and developed in terms of philosophies, practitioners, background, and techniques.

426—**Curriculum and Instruction in Art Education.** 3-2-2-**W.** A study of the art curriculums and instructional programs in the public schools in grades K through twelve.

492—**Art Education Project.** 3-1-2-**Q.** Prerequisite: ARE 309 and ARE 310. A research project of considerable scope and depth in the area of specialized art techniques as applied to the classroom situation.

ASTRONOMY (AST–365)

311—**General Astronomy.** 3-4-0-**F.** Prerequisite: MAT 101, 120, or 199. Introduction to the coordinate systems of the earth and celestial sphere, time and its applications. The solar system.

312—**General Astronomy.** 3-4-0-**W.** Prerequisite: MAT 101, 120, or 199. Astronomical relations of light, atomic theory, spectroscopy. Further topics on the solar system, comets and meteorites.

313—**General Astronomy.** 3-4-0-**S.** Prerequisite: MAT 101, 120, or 199. Astronomical measurements, star classifications, galaxies, and the stellar energy cycle.

315—**General Astronomy Laboratory.** 1-0-3-**F.** Corequisite: AST 311. Experiments in astronomical measurements.

316—**General Astronomy Laboratory.** 1-0-3-**W.** Corequisite: AST 312. Experiments in astronomical measurements.

317—**General Astronomy Laboratory.** 1-0-3-**S.** Corequisite: AST 313. Experiments in astronomical measurements.

ATHLETIC ADMINISTRATION AND COACHING (AAC–710)

210—**Varsity Football.** 1-2-0-**F.**

211—**Varsity Basketball.** 1-2-0-**W.**

212—**Varsity Baseball.** 1-2-0-**S.**

213—**Varsity Track and Field.** 1-2-0-**F.**

214—**Varsity Tennis.** 1-2-0-**S.**

215—**Varsity Golf.** 1-2-0-**S.**

240—**Techniques of Officiating Minor Sports.** 3-4-0-**S.** Personal skills and officiating techniques in varsity sports. To include track and field, swimming, golf, and tennis.

300—**Foundations and Trends in Athletics and Coaching.** 3-4-0-F,W,Su. The role of athletics in society. The sociological, cultural, and ethical dealings with athletics as it relates to coaching.

303—**Organization and Administration of High School Athletics.** 3-4-0-F,W,S. The organizational and administrative procedures of major and minor sports programs.

320—**Basic Techniques of Coaching Football.** 3-4-0-F,S. The study of offensive and defensive fundamentals. The philosophies, terminology, strategy, and individual techniques used in football.

321—**Basic Techniques of Coaching Basketball.** 3-4-0-F,S. A study of basketball fundamentals. The history, philosophy, terminology, strategy, and individual techniques of basketball.

322—**Coaching Wrestling.** 2-2-0-W,S. Fundamentals of coaching wrestling as it relates to the selection of personnel, skills, and proper training procedures.

323—**Coaching Volleyball.** 2-2-0-W,S. Fundamentals of coaching volleyball as it relates to the selection of personnel, skills, and proper training procedures.

340—**Coaching Golf.** 2-2-0-F,W,S. Theoretical and practical approach to golf instruction. Course planning and maintenance, rules and etiquette, and tournament administration.

341—**Coaching Tennis.** 2-2-0-F,W,S. Techniques of coaching tennis. Construction and maintenance of tennis courts. Organization and administration of a tennis program.

360—**The Organization and Administration of Aquatics.** 3-4-0-F,S. Community and school swimming programs, pool operation, maintenance, and sanitation.

361—**Coaching Swimming and Diving.** 3-4-0-F,W. Fundamental principles involved in swimming and diving. Selection and placement of personnel, practice schedules, and training techniques.

362—**Life Saving and Water Safety.** 2-2-0-Q. Prerequisite: Proficiency in swimming. American Red Cross Senior Life Saving Certificate awarded upon course completion.

370—**Prevention and Care of Athletic Injuries.** 3-4-0-Q. Theory and practice for the prospective trainer and coach.

371—**Diagnostic Techniques.** 3-4-0-W,Su. A specialized course dealing with anatomy, injury symptoms, and specific tests to help make preliminary evaluation of injuries.

372—**Athletic Therapy Modalities.** 2-2-0-F. The theory and operation of the most commonly used therapeutic devices of the training room.

373—**Strength, Conditioning, and Rehabilitation.** 2-2-0-F. Building stronger athletes, developing maximum efficiency, and post-injury rehabilitation.

400—**Development of Athletic Attributes.** 3-4-0-F,W,Su. The development and administering of strength, endurance, flexibility, reaction, speed, and agility programs.

401—**Practice, Organization, Scouting, and Communication Techniques.** 3-4-0-F,S,Su. Daily practice plans. Scouting techniques, cinematography, instructional materials, techniques, and equipment for coaches.

410—**Psychological and Sociological Aspects of Coaching.** 3-4-0-F,S,Su. The analysis and study of human behavior patterns as they relate to athletics.

420—**Techniques of Officiating Sports.** 3-4-0-F,W,S. Personal skills and officiating techniques of sports.

421—**Advanced Techniques of Coaching Football.** 3-4-0-F,S,Su. Player selection, offensive and defensive formations, and game organization and strategy.

422—**Advanced Techniques of Coaching Basketball.** 3-4-0-W,Su. The criteria of player selection with emphasis on the area of theory, principles, and techniques of offensive and defensive planning and strategy.

423—**Coaching Baseball.** 3-4-0-W,S,Su. The study of advanced techniques of baseball. Emphasis placed on player selection and placement, team organization, and game strategy.

424—**Coaching Track and Field.** 3-4-0-W,S. Selected personnel, fundamentals, and training techniques.

425—**Field Experience in Officiating Competitive Athletics.** 3-4-0-F,W,S. Prerequisite: AAC 240 and AAC 420. To provide an opportunity for practical experience in officiating competitive athletics.

460—**Water Safety Instructor's Course.** 2-4-0-Q. Prerequisite: AAC 362. Knowledge and skills beyond the scope of Senior Life Saving, certifying personnel to conduct water safety courses in schools and communities.

470—**Medical Aspects of Athletic Training.** 3-4-0-W. Team physician and trainer relationships. Physical examination, emergency equipment, medical terminology, and problems related to the team doctor.

471—**Training Room Practice.** 3-1-3-Q. Practical training room experiences consisting of observation and actual practice of training room techniques.

472—**Field Experience in Athletic Training.** 3-4-0-F,W,S. During the senior year, all students working toward an athletic training certificate will be given actual practice in the field.

473—**Practicum in Athletic Administration and Coaching.** 1-6 hrs. arr. Q. Provision of experiences in the unique phases of the Department of Athletic Administration and Coaching program.

474—**Taping and Wrapping of Athletic Injuries.** 2-0-2-X. Prerequisite: AAC 370 and AAC 371. Practical taping and wrapping experiences consisting of observation and actual taping of all types of athletic injuries.

BIOLOGY (BIO—305)

101—**Principles of Animal Biology.** 4-3-3-Q. An organism presentation of the lower animals, basic anatomy is discussed with emphasis on the ecological aspects of living organisms.

102—**Diversity of Plant Life.** 4-3-3-Q. Basic anatomical structures and physiological processes of higher plants with minor emphasis on lower plants.

202—**Vertebrate Biology.** 4-3-3-Q. Prerequisite: BIO 101. Anatomy and physiology of vertebrate systems (including human). Correlation of structure and function is emphasized.

220—**Human Anatomy and Physiology I.** 3-3-2-F,Su. Structure and function of cells and tissues, including respiration, muscle, and blood. Carries no credit for biology majors.

221—**Human Anatomy and Physiology II.** 3-3-2-W,Su. Structure and function of the cardiovascular, nervous, respiratory, and digestive systems. Carries no credit for biology majors.

222—**Human Anatomy and Physiology III.** 3-3-2-S,Su. Structure and function of the endocrine and urinogenital systems. Carries no credit for biology majors.

250—**Ornamental Horticulture.** 3-2-3-X. Study of the factors necessary for the growth, propagation, recognition, and control of ornamental plants.

251—**Landscape Planning.** 3-2-3-X. Soil conditioning, shrubbery placement, and care and maintenance of managed landscapes.

255—**General Botany.** 3-2-3-X. Prerequisite: BIO 102. A study of plant form and function utilizing representative plant groups.

310—**Microtechnique.** 3-1-6-**F.** Prerequisite: Consent of instructor. Techniques for sectioning, mounting, and staining tissue and making whole mounts.

315—**Cellular Physiology.** 3-3-0-**F,S,Su.** Prerequisites: 8 hours of biology, 9 hours of chemistry. Cellular anatomy, chemistry, and physics.

320—**Comparative Anatomy I.** 3-2-4-**F,W,Su.** Prerequisites: BIO 101, 102, 202. Phylogeny of the chordates, with special emphasis on vertebrate organ systems.

321—**Comparative Anatomy II.** 3-2-4-**W,S,Su.** Prerequisites: BIO 320 or consent of instructor. Phylogeny of the chordates, with laboratory work devoted to the study of mammals.

339—**Herpetology.** 3-2-4-**F.** Prerequisites: BIO 101, 102. Collection, preservation, identification, and distribution of amphibians and reptiles. Field trips when possible.

340—**Dendrology.** 3-2-4-**X.** Prerequisites: BIO 101, 102. The taxonomic and ecological characteristics, and the distribution of trees.

401—**History of Biology.** 2-2-0-**X.** Lectures and papers concerning the development of biological sciences.

410—**Electron Microscopy.** 3-3-3-**X.** Theory and use of the electron microscope and associated instrumentation, and darkroom techniques.

411—**Histology.** 3-3-2-**X.** Prerequisite: 12 hours of biology. Microscopic anatomy of mammalian organ systems.

420—**Embryology.** 3-2-4-**W.** Prerequisites: BIO 101, 102. Embryology of vertebrates. Maturation, fertilization, cleavage, origin and development of germ layers, histogenesis, and organogenesis.

422—**Experimental Embryology.** 3-2-4-**X.** Prerequisite: BIO 420. Factors which activate or regulate developmental processes.

423—**Protozoology.** 3-2-4-**X.** Prerequisites: BIO 101, 102. Introduction to parasitic and free-living protozoa.

424—**Human Protozoology.** 3-2-4-**W,Su.** Prerequisites: BIO 101, 102. Life histories, epidemiology, and diagnostic characteristics of protozoans parasitic in man.

425—**Human Helminthology.** 3-2-4-**F,Su.** Prerequisites: BIO 101, 102. Life histories, systematics, and host relationships of helminths of medical significance.

426—**Medical Entomology.** 3-2-4-**W.** Prerequisite: Consent of instructor. Arthropod vectors and agents of disease.

430—**Mammalian Physiology I.** 3-3-2-**F.** Prerequisites: BIO 101, 202, 321. Functioning of major mammalian systems emphasizing interrelationships and regulation.

431—**Mammalian Physiology II.** 3-3-2-**W.** Prerequisite: BIO 430. Study of system function, coordination, and control.

432—**Comparative Animal Physiology I.** 3-2-4-**W.** Prerequisites: 12 hours of biology, 9 hours of chemistry. Comparisons of systems and adaptations of vertebrates.

433—**Comparative Animal Physiology II.** 3-2-4-**S,Su.** Prerequisite: BIO 432. Comparison of vertebrate function in relation to the environment.

434—**Endocrinology.** 3-3-0-**W.** Prerequisite: BIO 101, 202, or consent of instructor. Survey of the endocrine glands and their role in regulating the physiological processes of mammals.

435—**Ethology.** 3-3-0-**X.** Prerequisite: BIO 202. Classical and current concepts of animal behavior including individual and social behavioral patterns.

436—**Invertebrate Zoology I.** 3-2-4-**F.** Prerequisites: BIO 101, 102. Survey of Invertebrate Phyla Protozoa to Annelida.

437—**Invertebrate Zoology II.** 3-2-4-**W.** Prerequisite: BIO 436. Survey of Invertebrate Phyla through Hemichordata.

438—**Entomology.** 3-2-4-**F.** Prerequisites: BIO 101 and 102. Structural adaptations, classification, life histories and habits, and the economic importance of insects.

439—**Arachnida Biology.** 3-2-3-**S.** Prerequisites: BIO 101, 102. Biology, morphology, and classification of the arachnids.

440—**Ichthyology.** 3-2-4-**F.** Prerequisites: BIO 101, 102, 202. Collection, preservation, and identification of local fishes and fish-like vertebrates, with emphasis on fresh water. Field work.

441—**Ornithology.** 3-2-4-**S.** Prerequisites: BIO 320, 321 recommended. Morphology, taxonomy, life history, distribution, evolution, and adaptations of birds.

442—**Mammalogy.** 3-2-4-**W.** Prerequisites: BIO 320, 321 recommended. Morphology, taxonomy, life history, distribution, evolution, and adaptations of mammals.

443—**Principles of Nomenclature.** 2-2-0-**X.** Prerequisite: Consent of instructor. Discussions and problems in biological nomenclature.

444—**Advanced Systematic Ichthyology.** 3-2-4-**X.** Prerequisite: BIO 440. Systematics, natural history, distribution, and economic importance of fishes.

448—**Introductory Mycology.** 3-2-4-**W.** Prerequisite: Consent of instructor. Taxonomy, physiology, and biochemistry of fungi.

449—**Introductory Phycology.** 3-2-4-**X.** Prerequisite: Consent of instructor. Taxonomy, physiology, and biochemistry of the algae.

450—**Plant Anatomy.** 3-2-4-**X.** Prerequisite: BIO 102. A study of the anatomy of vascular plants.

451—**Morphology of Non-Vascular Plants.** 3-2-4-**W.** Prerequisite: BIO 101, 102. Life cycles, evolution, and diagnostic characteristics of representative algae, fungi, lichens, liverworts, and mosses.

452—**Morphology of Vascular Plants.** 3-2-4-**S.** Prerequisites: BIO 101, 102. Life cycles, evolution, and diagnostic characteristics of representative ferns, fern allies, and seed plants.

453—**Aquatic and Marsh Plants.** 3-2-4-**F,S.** Prerequisite: Consent of instructor. Collection, identification, and ecology of aquatic and marsh plants of fresh and brackish water.

454—**Plant Physiology.** 3-2-4-**X.** Prerequisites: General and organic chemistry recommended. The basic physiological processes of green plants.

455—**Economic Botany.** 3-2-4-**X.** Prerequisite: BIO 102 or consent of instructor. Origin, distribution, and significance of plants most important to man.

456—**Plant Pathology.** 3-2-4-**X.** Prerequisite: BIO 102. Taxonomy, physiology, and control of economically important plant pathogens.

457—**Taxonomy of Higher Plants.** 3-2-4-**X.** Prerequisites: BIO 101, 102. The classification of seed plants.

460—**Biogeography.** 2-2-0-**W.** Prerequisite: Consent of instructor. A descriptive and analytical study of the distribution of plants and animals.

461—**Ecology I.** 3-2-4-**F.** Prerequisites: BIO 101, 102, or consent of instructor. Enviornmental interrelationships of organisms to their environment.

462—**Ecology II.** 3-2-4-**W.** Prerequisite: BIO 461. Ecological effects of environmental factors and relationship of respiration and osmoregulation. Population growth.

465—**Freshwater Biology.** 3-2-4-**Su.** Prerequisite: Consent of instructor. Collection, identification, and ecology of aquatic organisms significant to the assessment of water quality.

466—**Limnology.** 3-2-4-**S.** Prerequisites: BIO 461 and 462 strongly recommended, and consent of instructor. The physical, chemical, and biological conditions in lakes, ponds, and streams.

467—**Introduction to Biological Oceanography.** 3-2-4-**X.** Prerequisites: BIO 461 and 462. Ocean basin topography, distribution of bottom sediments, and physical and chemical characteristics of sea water.

470—**Ecology of Parasitic and Vector-Borne Diseases.** 2-2-0-**X.** Prerequisite: Consent of instructor. Transmission and pathogenesis of parasitic and vectorborne diseases in their ecological framewords.

475—**Plant Ecology.** 3-3-2-**X.** Prerequisite: Advanced standing in botany. Relationship of plants to their environment.

492—**Biological Problems I, II, III, IV.** 1-6 hrs. arr. Courses in special techniques, designed for majors with a need for certain basic techniques as tools for research.

493—**Field Biology.** 2-6 hrs. arr. Prerequisite: Consent of instructor. Ecological and taxonomic studies of the fauna and flora of a variety of habitats. Offered between quarters as 4-to 6-day field trips.

496—**Undergraduate Seminar I, II, III.** 1-3 hrs. arr. **X.** The presentation and discussions of current biological topics.

The Following Courses are Taught at the Gulf Coast Research Laboratory in Ocean Springs by the Gulf Coast Research Laboratory Staff

481—**Marine Vertebrate Zoology.** 6-6-12-**Su.** Prerequisite: 16 hours of biology. Survey of all marine chordates; the lower subphyla, fishes, reptiles, mammals, and shore birds.

483—**Marine Invertebrate Zoology I.** 6-6-12-**Su.** Prerequisites: 16 hours of biology. The lower maine invertebrates. Emphasis on morphology, distribution, and ecology of the phyla from Protozoa through Lophophorata.

484—**Marine Invertebrate Zoology II.** 6-6-12-**Su.** Prerequisite: BIO 483. The higher marine invertebrates. Morphology, distribution, and ecology of the phyla from Mollusca through the Protochordates.

485—**Parasites of Marine Animals.** 6-6-12-**Su.** Prerequisite: Consent of instructor. Emphasis on morphology, taxonomy, life histories, and host-parasite relationships.

488—**Introduction to Marine Zoology.** 6-6-12-**Su.** Prerequisite: 8 hours of biology including zoology. A general introduction to the marine environment with emphasis on local fauna.

489—**Marine Botany.** 6-6-12-**Su.** Prerequisite: 10 hours of biology including botany. A survey, based upon local examples, of the principal groups of marine algae.

BUSINESS EDUCATION (BED—105)

101—**Elementary Typewriting.** 3-4-0-**F,W,S.** For **beginners.*** Acquiring keyboard control, developing correct typewriting techniques, and applying this skill to problems.

102—**Intermediate Typewriting.**** 3-4-0-**Q.** A review of keyboard and manipulative controls, with emphasis on letter styles, manuscripts, and tabulated reports.

201—**Beginning Shorthand.** 3-4-3-**F,W,S.** For **beginners.*** Gregg theory with practice; emphasis on fluency of reading and writing; some dictation and transcription.

202—**Intermediate Shorthand.**** 3-4-3-**F,W,S.** Completion of theory of Gregg shorthand, with emphasis on dictation, pre-transcription factors, and transcription.

300—**Business Writing.** 3-4-0-**F,W,S.** Study and application of principles and techniques used in analyzing problems and writing effective business letters and memorandums.

305—**Dictation and Transcription.**** 3-4-3-**F,W,S.** Automatic review of shorthand theory, with emphasis on speed and mailable transcripts.

310—**Advanced Typewriting.**** 3-4-0-**F,W,S.** Emphasis on speed and accuracy in preparing stencils, business forms, legal documents, tables, manuscripts, and letters.

340—**Adding and Calculator Machine Operation.** 2-2-0-**Q.** Operation of rotary and printing calculators; full keyborad and ten-key adding machines.

352—**Filing Systems and Records Management.** 2-4-0-**Q.** Study of major filing systems; rules for alphabetizing; application of filing to specific types of businesses.

354—**Problems in Typewriting.** 2-4-0-**Q.** Techniques in skill building; speed and accuracy in typing a variety of office forms; emphasis on production work.

450—**Office Appliances.** 3-4-0-**Q.** Operation of calculators, adding and posting machines, transcribing machines, electric typewriters, mimeoscopes, and duplicating machines.

452—**Philosophy of Vocational Business Education.** 3-4-0-**W.** History; changing concepts, office systems, occupations, employment opportunities, procedures, and techniques.

453—**Coordination of Office Occupations Programs.** 3-4-0-**Su.** Problems in developing office occupations programs to meet the needs of employees and businesses.

454—**Content and Methods of Distributive Education.** 3-4-0-**X.** Principles, concepts, program plans, curricula, methods and instructional materials, activities, research, and evaluation.

460—**Office Management.** 3-4-0-**F,W,S.** Principles of management as applied to office work; office organization, supervision, layout, supplies, machines, personnel, forms, reports, and services.

471—**Advanced Dictation and Transcription.**** 3-4-3-**Q.** Final theory review and emphasis on speed dictation and transcription of mailable copy. Minimum passing grade—**C.**

472—**Executive Secretarial Shorthand.**** 3-4-3-**F,S,Su.** Final emphasis on shorthand speed dictation and transcription of mailable copy, with primary emphasis on vocabulary in specialized fields.

475—**Legal Secretaryship.** 3-4-0-**F.** Prerequisite: BED 305 and 310 or equivalent. A course stressing the professional aspects of legal secretarial practices and procedures.

476—**Medical Secretaryship.** 3-4-0-**S.** Prerequisite: BED 305 and 310 or equivalent. A course stressing the professional aspects of the work of a medical secretary.

480—**Research and Report Writing.** 3-4-0-**W,Su.** Concepts and methods of business research and style; problems encountered in researching and reporting business data in written reports.

485—**Office Practice and Procedures.** 3-4-0-**F,W,S.** A study of problems in secretarial work, along with the developing of desirable personality traits and good human relations.

492—**Special Problems in Business Education.** 1-3-4-0-**X.** Study approved and directed by the department chairman.

* A student with one year of typewriting in high school cannot get credit for BED 101, and a student with one year of shorthand in high school cannot get credit for BED 201. A student who has had more work than this in either or both fields should consult with the chairman of the Department of Business Education about the appropriate beginning courses for his program.

** PREREQUISITE for all typewriting and shorthand courses—Grade of **C** or better, or equivalent, in the preceding course.

CHEMISTRY (CHE–320)

100–**Introductory Chemistry.** 3-4-0-**F,Su.** Prerequisite: High school algebra or MAT 101 which may be taken concurrently. A preparatory course (for CHE 101) in chemical fundamentals; does not satisfy core requirements in College of Science and Technology or Schools of Nursing and Home Economics.

101–**General Chemistry I.** 3-3-3-**F,W,Su.** Prerequisites: High school chemistry or CHE 100, and high school algebra or MAT 101 which may be taken concurrently. Atomic and molecular structure and bonding, stoichiometry and the mole concept, physical properties of molecular substances and aqueous solutions.

102–**General Chemistry II.** 3-3-3-**W,S,Su.** Prerequisite: CHE 101. Basic principles of thermochemistry, chemical equilibrium, chemical dynamics, and types of solutions including gaseous, liquid, and solid.

103–**General Chemistry III.** 3-3-3-**S,Su.** Prerequisite: CHE 102. Acid-base reactions, oxidation-reduction reactions, introduction to nuclear chemistry and selected organic and biochemical topics.

251–**Elementary Organic Chemistry I.** 3-3-3-**Q.** Prerequisite: CHE 102. A short survey course in organic chemistry designed for students majoring in nursing and in some areas of home economics.

252–**Elementary Organic Chemistry II.** 3-3-3-**Q.** Prerequisite: CHE 251. A continuation of CHE 251. CHE 251 and 252 should not be considered as a substitute for CHE 351, 352, 353.

300–**Chemical Safety.** 2-1-3-**X.** Prerequisite: CHE 252 or 353 or permission of the instructor. A study of the hazards of various commonly used chemicals. Instruction in the safe use, storage, and disposal of dangerous chemicals.

311–**Analytical Chemistry I.** 4-2-6-**F,Su.** Prerequisite: CHE 103. Theory and practice of chemical equilibrium. Quantitative, gravimetric, and volumetric analysis. Introductory instrumental analysis.

312–**Analytical Chemistry II.** 4-2-6-*W,Su.* Prerequisite: CHE 311. A continuation of CHE 311.

321–**Elementary Biochemistry.** 3-3-3-**W,S,Su.** Prerequisite: CHE 252. A one quarter survey course in biochemistry.

322–**Clinical Biochemistry.** 3-4-0-**S.** Prerequisite: CHE 321. A course designed to acquaint the student with the biochemical basis for clinical diagnosis.

351–**Organic Chemistry.** 3-3-3-**F,W,Su.** Prerequisite: CHE 103. Introduction to the chemistry of aliphatic compounds, including nomenclature, reaction mechanisms, and stereochemistry.

352–**Organic Chemistry.** 3-3-3-**W,S,Su.** Prerequisite: CHE 351. Study of the basic monofunctional organic compounds (aromatics, halides, alcohols, ethers, and acids) and their spectroscopic analysis.

353–**Organic Chemistry.** 4-3-6-**S,Su.** Prerequisite: CHE 352. Continued study of basic monofunctional (aldehydes, ketons, acid derivatives, amines, phenols) and several polyfunctional (carbohydrates, amino acids and proteins) compounds.

361–**Physical Chemistry for Pre-Medical and Biological Sciences Students.** 4-3-6-**X.** Prerequisites: MAT 103 and CHE 312. Gas laws, kinetics, equilibrium and free energy, electrochemistry, pH, buffers, and membrane phenomena.

362–**Physical Chemistry for Pre-Medical and Biological Sciences Students.** 4-3-6-**X.** Prerequisite: 361. A continuation of 361. CHE 361 and 362 are not to be taken by chemistry majors.

400–**Chemical Literature.** 1-1-0-**X.** Prerequisite: CHE 353 and 312. The selection and use of the reference materials of chemistry: periodicals, journals, texts, patents, and other sources of information.

401—**Glass Blowing.** 2-1-3-X. A course covering simple operations of glass blowing to enable the student to make common apparatus.

402—**Chemistry of the Atmosphere.** 4-4-3-X. Prerequisite: CHE 312. Radiocarbon cycle, atmospheric photochemistry, weather patterns, greenhouse effect, combustion pollutants, health hazards, etc.

403—**Industrial Chemistry.** 3-4-0-X. Prerequisite: Permission of the instructor. A study of the more important processes used in industry. Invited industrial representatives and plant visits keep the topics current and useful.

411—**Instrumental Analysis.** 4-4-3-S. Prerequisite: CHE 353 and 312. Theory and practice of analytical instrumentation; absorption spectroscopy, chromatography, mass spectroscopy, and magnetic resonance.

421—**Introduction to Biochemistry.** 4-4-3-F,Su. Prerequisite: 353. The properties of amino acids, proteins, carbohydrates, lipids, and nucleic acids; actions of enzymes and protein synthesis.

422—**Intermediary Metabolism.** 4-4-3-W,Su. Prerequisite: 421. The study of the major metabolic pathways with emphasis on energy considerations and inter-relationships of the pathways.

431—**Inorganic Chemistry.** 3-4-0-F. Prerequisite: CHE 353 and 312. Models, concepts, bonding and periodic trends in inorganic chemistry.

432—**Descriptive Inorganic Chemistry.** 3-3-3-W. Prerequisite: CHE 431. Reactions and synthesis of inorganic compounds and complexes.

441—**Application of Nuclear Techniques.** 4-4-3-X. Prerequisite: Permission of the instructor. Applied biological, chemical, environmental, etc., problems. Topics: radioisotope handling, radiation detection, shielding, tracer techniques, etc.

451—**Qualitative Organic Analysis I.** 2-1-3-W. Prerequisite: CHE 353. The systematic identification of pure organic chemicals.

452—**Qualitative Organic Analysis II.** 2-1-3-S. Prerequisite: CHE 451. A study of the analysis of mixtures, with emphasis on chromatographic separation techniques and spectroscopic methods of analysis.

461—**Physical Chemistry.** 3-3-3-F. Prerequisites: MAT 277 and CHE 353. Chemical thermodynamics, kinetics, surface phenomena, quantum chemistry, symmetry, spectroscopy, and molecular structure.

462—**Physical Chemistry.** 3-3-3-W. Prerequisite: CHE 461. A continuation of CHE 461.

463—**Physical Chemistry.** 3-3-3-S. Prerequisite: CHE 462. A continuation of CHE 462.

496—**Special Projects I.** 1-3 hrs. arr. Prerequisite: Permission of faculty. A course in library and laboratory research on a problem chosen in consultation with the adviser.

CHILD DEVELOPMENT (CD—805)

050 or 359—**Preschool Teachers' Workshop I, II, III.** 1 hr. arr. **X.** For teachers, administrators, and educational leaders of preschool centers with emphasis on administration, curriculum, and other appropriate subjects.

350—**Child Development.** 3-3-3-Q. Designed to create interest in preschool children and to foster understanding to their development and behavior patterns.

351—**Home and Preschool Relationships.** 3-4-0-W. Study of relationships of parents and children with emphasis on principles, procedures, and methods of working with parents in groups or individually.

450—**Administration of Preschool Programs.** 3-3-3-S. A course in the organizational structure and management of various preschool programs.

451—**Infant Development.** 3-3-3-S. Emphasis will be given to the development and behavior of the infant.

452—**Child Development Methods and Materials.** 3-3-3-W. Provisions are made to evaluate and select materials for use in developing teaching techniques and planning play activities for children.

453—**Creative Activities for the Preschool Child.** 3-3-3-F. A study of creative activities (literature, art, music, nature study, etc.) for preschool children with practical experiences provided.

454—**Participation Experiences in the Infant Development Center.** 3 hrs. arr. Q. Prerequisite: CD 450. Directed participation as an assistant in the Infant Development Center for one quarter.

455—**Supervised Participation.** 4 hrs. arr. Q. Prerequisite: CD 450. Directed participation as an assistant in the Nursery School for one quarter.

459—**Symposium in Child Development.** 3 hrs. arr. X. Prerequisite: Consent of instructor. A study of theories and recent research used in preschool education.

492—**Special Problems in Child Development.** 1-4 hrs. arr. X. Prerequisites: CD 350 and consent of instructor.

CLOTHING AND TEXTILES (CT—810)

131—**Fundamentals of Clothing.** 3-1-4-Q. Understanding and applying the fundamental principles of garment construction to a specific garment.

221—**Fashion Modeling and Fashion Show Production.** 3-4-0-F,S. Basic principles of fashion modeling and fashion show production.

321—**New York Study Tour.** 2 hrs. arr. F. Alternate years. Planned tour to New York with emphasis on clothing, textiles, fashion, and interiors. Junior or senior standing.

328—**Fashion Display.** 2-1-2-F,S. Study available resources of display materials and laboratory experiences in fashion display.

330—**Consumer Textiles.** 3-4-0-Q. Study of textile fibers, fabrics, finishes, and legislation as related to serviceability.

331—**Garment Selection and Wardrobe Planning.** 3-4-0-X. Selection of garments through comparative buying techniques on basis of need, cost, and serviceability.

332—**Art Related to the Home and Dress.** 3-2-2-Q. Prerequisite: ART 111. Experiences in perceiving visual design elements as they relate to the home and dress.

333—**Family Clothing.** 3-1-4-Q. Interpreting and solving problems associated with clothing a family, with laboratory emphasis on advanced clothing construction and pattern alteration.

334—**Textiles.** 3-2-2-X. Experimental treatments of textile products for evaluation of characteristics relating to end-use performance.

335—**Clothes and Cultures.** 3-4-0-F,S, Cultural and economic factors concurrent to the adoption and abandonment of dress from ancient times to the present.

336—**Tailoring Men's Wear.** 3-1-4-F. Basic principles and techniques of tailoring applicable to the construction of men's suits.

430—**Textile Product Evaluation.** 3-1-4-S. Prerequisite: CT 330 or CT 334 or approval of instructor. Testing textile fabrics by standard ASTM and AATCC methods; interpreting and evaluating results for better consumer practices.

431—**Tailoring.** 3-1-4-W. Principles and techniques of tailoring applied to a suit or coat.

432—**Textile Economics.** 3-4-0-**W.** A study of problems which affect the consumer in the production, distribution, and consumption of textiles and clothing.

433—**Flat Pattern Design.** 3-1-4-**S.** Basic principles of flat pattern technique and the application of said technique to creation dress design.

434—**History of Decorative Textiles.** 3-4-0-**S.** Historical view of surface and construction design techniques in textiles.

435—**Fashion Fundamentals.** 3-4-0-**S.** Understanding fashion through a study of the interrelationships of the raw materials, producers, retailers, and consumers of fashion.

437—**Apparel Design.** 3-2-2-**W.** Fashion from the designer's viewpoint; terminology, methods, and influences. Experiences in designing.

439—**Retail Management Internship I, II.** 2-0-0-**X.** Must be taken twice. Prerequisites: C&T 435, 437, MKT 330, 330, 342. Understanding the operation and management of retail activities through a training-work program in a cooperating department store. Supervision by the adviser with whom arrangements are made and for whom progress and evaluation reports are prepared.

492—**Special Problems.** 3-0-0-**Q.** A directed individual study planned and approved by the chairman of the department.

COMPUTER SCIENCE (CSS—330)

100—**Introduction to Computing.** 3-4-0-**Q.** Prerequisite: Permission of instructor. Computer concepts, forms of I/O, system design and analysis, recording data, and programming languages. This course may not apply to any major within this department.

211— **Statistical Methods I.** 3-4-0-**Q.** Prerequisite: MAT 120 or permission of instructor. Sampling and sampling distributions: normal and binomial, measures of central tendency and dispersion.

212—**Statistical Methods II.** 3-4-0-**W,Su.** Prerequisite: CSS 211. Hypothesis testing, correlation, regression analysis, analysis of variance and covariance.

240—**Introduction to Programming Laboratory.** 3-4-1-**Q.** Prerequisite: MAT 120 or equivalent. Introduction to the FORTRAN language.

320—**Introduction to Linear Programming Techniques.** 3-4-0-**F,S,Su.** Prerequisite: MAT 171. Vectors and Euclidean spaces, linear transformations, convex sets and hyperplanes, theory of simplex method, the transportation problem.

323—**Applied Techniques in Statistics and Engineering.** 3-4-0-**F.** Prerequisite: MAT 379 or equivalent. Laplace transforms, frequency and time-domain analysis of linear systems.

324—**Applied Techniques in Statistics and Engineering.** 3-4-0-**W.** Prerequisite: MAT 379. State variable theory, time-domain analysis of linear systems.

340—**Advanced Fortran Programming.** 3-4-0-**Q.** Prerequisite: CSS 240 or equivalent. Advanced Fortran concepts, algorithmic procedures, and data structures.

341—**Digital Computer Programming.** 3-4-0-**F,W,S.** Prerequisite: CSS 340. Assembler language coding: registers, instruction formats, decimal and floating point arithmetic, I/O coding, system capabilities, program states.

342—**Introduction to COBOL Programming.** 3-4-0-**F,W.** Prerequisite: CSS 240. Programming of problems using the COBOL language.

370—**Hardware Systems I.** 4-4-2-**F.** Prerequisites: CSS 341, PHY 327, and PHY 328. Design, analysis and maintenance of computer systems.

371—**Hardware Systems II.** 4-4-2-**W.** Prerequisite: CSS 370. A continuation of CSS 370.

372—**Hardware Systems III.** 4-4-2-S. Prerequisite: CSS 371. A continuation of CSS 371.

415—**Methods of Mathematical Statistics I.** 3-4-0-W,S. Prerequisite: Permission of instructor. Hypothesis testing, power of tests, analysis of variance, orthogonal contrasts, fixed, random and mixed models.

416—**Methods of Mathematical Statistics II.** 3-4-0-S,Su. Prerequisite: CSS 415. Simple and multiple linear regression, polynomial regression, multi-way analysis of variance, randomized blocks and nested factorials.

417—**Experimental Design.** 3-4-0-Su. Prerequisite: CSS 416. Factorials, randomized blocks, Latin squares and split-plot, fractional factorials and confounding response surface models.

418—**Sampling Methods.** 3-4-0-X. Prerequisite: CSS 415. The planning, execution, and evaluation of sample surveys. Simple random sampling, stratified random sampling, cluster sampling.

420—**Numerical Analysis I.** 3-4-0-F. Prerequisites: MAT 378 and CSS 340. Numerical solution to transcendental equations, systems of linear and non-linear equations, Milne's method, Runge-Kutta method.

421—**Numerical Analysis II.** 3-4-0-S. Prerequisite: MAT 378. Modeling of continuous and discrete systems, approximation to computer based functions, Pade' approximation.

422—**Operations Research.** 3-4-0-S. Prerequisite: CSS 320. PERT-CPM, dynamic and quadratic programming, parametric and integer linear programming, penalty functions.

423—**Digital Signal Processing I.** 3-4-0-X. Prerequisite: CSS 323. Theory, design, and implementation of digital signal processing structures.

424—**Digital Signal Processing II.** 3-4-0-X. Prerequisite: CSS 423. Design and implementation of digital image processing techniques. Image enhancements and pattern recognition.

425—**Computer Graphics Design.** 3-4-0-X. Prerequisite: CSS 441. Theory, design and use of computer graphic systems.

426—**Computer Aided Design.** 3-4-0-X. Prerequisite: CSS 425. Design of man-machine interaction.

435—**Theoretical Statistics I.** 3-4-0-F. Prerequisite: CSS 340. Discrete simulation of inventory systems, random walks, queuing systems, networks, and computer systems. Use of GPDS simulation language.

436—**Theoretical Statistics II.** 3-4-0-W. Prerequisite: CSS 435. Advanced model design. Simulation of complex stochastic systems. Extended use of GPDS and GASP simulation packages.

441—**Programming Languages.** 4-5-1-W,Su. Prerequisite: CSS 340. A survey of programming languages such as ALGOL, APL, SNOBOL4, PL/I, XPL and LISP.

442—**Business Computer Systems.** 3-4-0-W,S. Prerequisite: CSS 342. Methods of system analysis, data acquisition, file structures, terminal selection, use of flowcharts and decision tables.

450—**Systems Programming.** 4-5-0-F. Prerequisite: Permission of instructor. Research projects in systems problems. Research will involve current software or hardware topics.

451—**Systems Programming.** 4-5-0-W. Prerequisite: Permission of instructor. A continuation of CSS 450.

452—**Systems Programming.** 4-5-0-S. Prerequisite: Permission of instructor. A continuation of CSS 451.

460—**Computer Software I.** 3-4-0-**W,Su.** Prerequisites: CSS 340 and 341. Data structures and assemblers.

461—**Computer Software II.** 3-4-0-**F,S.** Prerequisite: CSS 460. An in-depth study of compilers and compiler writing techniques.

462—**Computer Software III.** 3-4-0-**F,S.** Prerequisite: CSS 461. An in-depth study of operating systems (batch, time-sharing and real time systems).

470—**Digital Systems I.** 4-4-3-**F,S.** Prerequisite: Permission of instructor. Analysis and synthesis of combinational, synchronous sequential, and asynchronous sequential circuits.

471—**Digital Systems II.** 4-4-3-**W,Su.** Prerequisite: CSS 470. Architectural organization of digital systems, microprogramming.

476—**Introduction to Analog Computers.** 3-4-1-**W.** Prerequisite: MAT 405 or CSS 323. Modeling and simulation of physical systems using analog and digital computers.

477—**Process Control Systems.** 3-4-0-**X.** Prerequisite: CSS 476. Fundamentals of direct digital control systems, real-time data handling.

478—**Digital Control Systems.** 4-5-1-**X.** Prerequisite: CSS 426. Design of systems incorporating a computer as an on-line element. Design of control algorithms and optimal control techniques.

480—**Data Processing and File Management.** 4-5-0-**S.** Prerequisite: CSS 341 and 342. Organization and maintenance of sequential, direct access and index sequential files. Design of on-line file systems.

490—**Computer Science Seminar.** 1-3 hrs. arr. **X.** Presentation of technical topics in the field.

492—**Computer Science Problems I.** 3-4-0-**X.** Prerequisite: Senior standing. Solution of problems germane to a select area of study.

493—**Computer Science Problems II.** 3-4-0-**X.** Solution of problems germane to a select area of study.

CONSTRUCTION CURRICULUM (BCT-393)

301—**Construction Practices I.** 3-2-4-**X.** Basic construction techniques, tools and equipment, and job planning analysis used in residential and small commercial projects.

302—**Construction Practices II.** 3-2-4-**X.** Prerequisite: BCT 301. Continuation of BCT 301, with emphasis on commercial projects.

303—**Construction Practices III.** 3-2-4-**X.** Prequisite: BCT 302. Continuation of BCT 302, with emphasis on construction equipment selection and utilization for commercial and heavy-highway construction.

335—**Construction Materials.** 3-4-0-**X.** Properties, characteristics, and utilization of materials used in construction.

371—**Site Development.** 3-2-4-**X.** Prerequisite: TEC 348. Building design, project planning and working drawings for residential and small commerical buildings. Emphasis on site work, sub-structure and floor systems.

372—**Construction Detailing.** 3-2-4-**X.** Prerequisite: BCT 371. Continuation of BCT 371 with emphasis on details of the building superstructure.

373—**Construction Methods.** 3-2-4-**X.** Prerequisite: BCT 372. Continuation of BCT 372, with an emphasis on plan systems, construction planning, shop drawings, client-architect-contractor relationships.

378—**Quantity Surveying.** 3-2-4-**X.** Prerequisite: BCT 371 or permission of instructor. Work item analysis and quantity survey techniques used in estimating costs of construction projects.

379—**Construction Cost Analysis.** 3-2-4-**X.** Prerequisite: BCT 378. Production analysis, determination of construction and operational costs, including indirect and overhead cost, and preparation of bidding documents.

383—**Codes and Specifications.** 3-4-0-**X.** A study of building codes and standards. Analysis of the contract documents, project specifications and legal implications for the contractor.

385—**Construction Organization.** 3-4-0-**X.** Prerequisite: BCT 373. Analysis of contracting functions and management concepts applied to construction company field and office operations.

386—**Safety in Construction.** 3-4-0-**X.** Development and management of accident prevention programs in construction. Study of the Occupational Safety and Health Act (OSHA) regulations and compliance procedures.

435—**Construction Planning and Scheduling.** 3-2-4-**X.** Prerequisite: BCT 379. Critical Path Method (CPM) as a project planning, scheduling and monitoring technique. Manpower leveling and resource allocation.

436—**Construction Labor.** 3-4-0-**X.** Prerequisite: BCT 385. A study of labor resources, craft union, the open shop movement and governmental labor regulations related to the construction industry.

437—**Construction Quality Control.** 3-4-0-**X.** Prerequisite: BCT 385. A study of quality control techniques and quality assurance systems with emphasis on cost control and scheduling relationships.

COUNSELING AND GUIDANCE (CGE–140)

101—**Foundations of Personal Development.** 1-1-0-**Q.** An introduction to the principles of human development. Open to freshmen and transfers only.

310—**Introduction to Social and Rehabilitation Services.** 3-4-0-**Q.** An orientation via a review of relevant history, legal mandates, philosophy, objectives, and applied services. Offered only with CGE 360.

311—**Assessment, Evaluation, and Prognosis in the Social and Rehabilitation Services.** 3-4-0-**F,W,S.** Introduction to basic assessment and evaluation techniques and application of these in rehabilitation settings.

312—**Methods and Techniques of Social and Rehabilitation Services.** 3-4-0-**F,W,S.** Emphasizes human relations skills and principles undergirding the practical application of various helping techniques. Offered only with CGE 361.

360—**Social and Rehabilitation Services Laboratory I.** 3-0-4-**Q.** Includes selected readings, discussion groups and directed field visits. Offered only with CGE 310.

361—**Social and Rehabilitation Services Laboratory II.** 3-0-4-**F,W,S.** Application of interview and group techniques through personal interaction experiences. Offered only with CGE 312.

413—**Vocational Development and the World of Work.** 3-4-0-**F,W,S.** An introduction to the study of vocational development and occupations.

422—**Curriculum Development for Career Education.** 3-4-0-**S,X.** Introduction to principles of curriculum adaptation for school-based programs of career education.

423—**Methods and Techniques of Group Guidance.** 3-4-0-**X.** Introduction to the fundamentals of developmental group work.

430—**Principles and Processes of Case Management.** 3-4-0-**W,S.** This course focuses on the coordination of specific functional tasks associated with habilitation/rehabilitation services.

431—**Medical and Personal Adjustment Aspects of Helping Processes.** 3-4-0-**F,W,S.** An introduction to the chronically disabling conditions both from the viewpoint of treatment processes and individual adjustment.

432—**Community Resources for Guidance.** 3-2-4-**F,S.** A study of the nature and development of agency resources within the community, along with their purposes and functions.

433—**Workshop in Counseling Procedures.** 3-0-0-**X.** A workshop to familiarize counselor personnel with new and innovative procedures in facilitating client development.

434—**Guidance of the Exceptional Child.** 3-4-0-**X.** A course to acquaint counselors and teachers with special considerations involved in providing guidance and child development services for exceptional children.

462-463—**Social and Rehabilitation Services Field Practicum I, II.** 3-0-12-**Q** or 6-0-24-**Q.** To be taken as an individualized internship practicum within an agency or facility.

492—**Special Problems.** 1-3 hrs. arr. **X.**

CRIMINAL JUSTICE (CJ—281)

200—**Introduction to Criminal Justice.** 3-4-0-**Q.** An introduction to the fundamental concepts of the criminal justice system from investigation through probation and parole.

300—**Police Methods and Organization.** 3-4-0-**W,S.** A survey of police operations and administrative support procedures.

301—**The Development of Modern Police Systems.** 3-4-0-**F,W,S.** A survey of the development of metropolitan police forces in Europe and the United States.

303—**Criminal Law I.** 3-4-0-**F,W,S.** A survey of substantive criminal law with emphasis on the most common criminal offenses.

304—**Fundamentals of Criminal Investigation.** 3-4-0-**F,S.** An overview of the crime solving process with emphasis on methodology, **corpus delecti,** and evidence.

305—**Traffic Law.** 3-4-0-**F,S.** An introduction to traffic law and methods of enforcement.

306—**Correctional Methods and Organization.** 3-4-0-**F,W.** A survey of major correctional systems and methods of treatment of offenders.

308—**Crime Prevention.** 3-4-0-**W.** A study of methods of protecting life and property in the community and in industry.

400—**Criminal Justice Practicum.** 3-0-0, 6-0-0, or 9-0-0-**Su.** Prerequisite: A criminal justice major with senior standing. Field work offering research and practice in a criminal justice agency.

403—**Criminal Law II.** 3-4-0-**F,W.** A survey of the procedural rules applicable to the judicial enforcement of substantive criminal law. Criminal Law I not required.

404—**Evidence, Search, and Seizure.** 3-4-0-**X.** An examination of the laws of evidence and the procedures for obtaining it.

406—**Administration of Criminal Corrections.** 3-4-0-**X.** An in-depth study of the administration of the correctional system. Includes management, the incarceration process, probation and parole.

407—**Juvenile Justice System.** 3-4-0-**W,Su.** A study of the law concerning investigation of juvenile offenders, disposition of offenders, and juvenile courts.

408—**Seminar in Criminal Justice.** 3-4-0-**F,S.** An interdisciplinary seminar covering significant problem areas in the criminal justice system.

409—**Law of Criminal Corrections.** 3-4-0-**X.** A study of the newly emerging rights of individuals at detention, arrest, and incarceration.

410—**Theories of Criminal Justice.** 3-4-0-**X.** Theories are traced from Aristotle's initial efforts to current application.

411—**Probation, Parole, and Community Corrections.** 3-4-0-**F,S.** Course examines probation and parole systems, other alernatives to incarceration, and local rehabilitative features available for offenders.

412—**Group Techniques in Corrections.** 3-4-0-**W,S.** An indepth examination of the application of group work to criminal offenders in terms of theory and practice.

413—**Seminar on Comparative Methods of Treatment in Corrections.** 3-4-0-**F,S.** An analysis of comparative treatment methodologies utilized by correctional programs throughout the United States and in Europe.

414—**Theories of Criminal Penalties.** 3-4-0-**F.** An exploration of the mandate and methods for society to impose penalties upon its criminal offenders.

415—**Comparative Criminal Justice Systems.** 3-4-0-**W,Su.** A study of foreign criminal justice systems with emphasis on how they suggest possible reforms for the American system.

416—**Anglo-American Penal Institutions and Reform.** 3-4-0-**F.** An in-depth analysis of British and American penal institutions and attempts at reform during the nineteenth and twentieth centuries.

492—**Special Problems.** 1-3 hrs. arr. **Q.**

ECONOMICS (ECO—610)

200—**Introduction to Economics.** 3-4-0-**Q.** Not to be counted toward major, minor, or meeting the core requirements of the College of Business Administration. Credit for graduation will not be given for both Economics 200 and 255 or 256.

255—**Principles of Economics I.** 3-4-0-**W.** An examination of the basic institutional environment of American capitalism and the determination of the level of national income, employment, prices, and growth.

256—**Principles of Economics II.** 3-4-0-**Q.** An examination of the laws of production and their influence on costs and output. Also, a study of product and factor price determination under varying degrees of competition.

301—**Elementary Statistics I.** 3-4-0-**Q.** Prerequisite: MAT 101 or 112. Basic concepts; central tendency and dispersion; probability; poisson, binomial distributions.

302—**Elementary Statistics II.** 3-4-0-**Q.** Prerequisite: ECO 301. Decision making, classical and bayesian; regression and correlation; index numbers and time series analysis.

310—**Economic History of the United States.** 3-4-0-**W.** A study of the economic forces that have influenced the development of the United States from its European origins to the present.

330—**Money and Public Policy.** 3-4-0-**Q.** Prerequisites: ECO 255 and 256. An intermediate study of the nature and functions of money, monetary theory, and the political and social context in which monetary policy is formulated.

335—**Economics of the Firm.** 3-4-0-**F.** Prerequisites: ECO 255 and 256. Not for economics majors. Credit for graduation will not be given for both ECO 335 and 240. An intermediate study of the application of economic theory to managerial decision-making.

340—**Price Theory.** 3-4-0-**F,S.** Prerequisite: ECO 256. An intermediate study of the determination of prices in factor and final product markets.

345—**Income Theory.** 3-4-0-**W,S.** Prerequisite: ECO 255. An intermediate study of the determination of income and employment.

401—**Public Finance.** 3-4-0-**W,Su.** Prerequisites: ECO 255 and 256. A study of federal and state spending and fund raising policies within the context of the social goals of the society.

413—**The Economy of Latin America.** 3-4-0-**W.** Prerequisites: ECO 255 and 256 or permission of instructor. Analysis of crucial economic issues in Latin America including: population explosion, the agricultural revolution, urbanization and industrialization, and foreign trade.

422—**Economics of Public Utilities.** 3-4-0-**F.** Prerequisite: ECO 256. Traditional public utility regulation—institutions and theory; the political economy of regulation and cost-benefit analysis of regulation.

424—**Economics of Urban Areas.** 3-4-0-**S.** Prerequisites: ECO 255 and 256. A study of current problems of the cities—race, poverty, pollution, unemployment, crime, and government finance.

435—**International Trade Theory.** 3-4-0-**F.** Prerequisites: ECO 255 and 256. A study of the historical development of international trade theory, the importance of international trade, and the mechanism of international payments.

440—**Economic Development.** 3-4-0-**X.** Prerequisites: ECO 255 and 256. Emphasis on the economic tools for analyzing economic development with particular attention to regional growth and change.

465—**Economics of Labor.** 3-4-0-**F.** A study of the labor market with special reference to the institutional setting, wage determination, and employment problems in an industrial economy.

470—**Comparative Economic Systems.** 3-4-0-**F,S.** A course designed to acquaint the student with the origins, development, and characteristics of facism, socialism, and capitalism.

480—**Environmental Economics.** 3-4-0-**W.** Prerequisites: ECO 255, 256, or consent of instructor. A survey of economic concepts relevant to decision making with reference to the management of natural resources heretofore considered to be "free" in nature.

492—**Contemporary Economic Problems I.** 3-4-0-**X.** Prerequisites: ECO 255 and 256. A study of the economic problems of monopoly, international trade, and income distribution.

494—**Contemporary Economic Problems II.** 3-4-0-**X.** Prerequisites: ECO 255 and 256. A study of the economic problems of the business cycle, inflation, growth, and size and influence of the public economy.

EDUCATIONAL FOUNDATIONS (CIF—125)

300—**Public Education in the United States.** 3-4-0-**Q.** An orientation including background, purposes, organization, trends, issues and evolution of teaching as a profession. To be taken the last quarter of the sophomore year.

334—**Improvement of Study.** 2-0-4-**F,W,S.** Prerequisite: Permission of the instructor. An analysis of effective study techniques. Useful for college students who wish to improve their own reading and study habits.

336—**Principles of Guidance.** 3-4-0-**Q.** An introductory course dealing with the fundamental philosophy, methods, and organization of guidance services in the public schools.

416—**Audiovisual Education.** 3-4-0-**Q.** A general course for teachers with emphasis upon sound and visual classroom teaching aids.

421—**Seminar for Teaching Interns.** 9-0-0-**X.** Open to intern-teachers only.

430—**Teaching in the Space Age.** 3-4-0-**X.** A study of the influence of aerospace developments on society. Provides teachers with the needed background for meaningful classroom experiences.

469—**Tests and Measurements.** 3-4-0-**Q.** Prerequisites: EPY 370, 372, or 374, and senior standing. Considers evaluative practices in elementary and secondary schools, informal tests, standard tests, and an introduction to elementary statistical procedures.

490—**Classroom Use of Instructional Television.** 3-4-0-**Su.** Provides a comprehensive experience in the planning, organizing, presentation and use of instructional television. Emphasis on Mississippi's state program.

EDUCATIONAL PSYCHOLOGY (EPY—180)

370—**Human Growth and Development, Part I: Child.** 3-4-0-**Q.** Prerequisite: PSY 110. Study of the child through the elementary school years, emphasizing principles and problems of development.

371—**Psychology of Preadolescence and Early Adolescence.** 3-4-0-**Q.** The study of human growth and development during later elementary and junior high school years.

372—**Human Growth and Development Part II: Adolescent.** 3-4-0-**Q.** Prerequisite: PSY 110. A course dealing with development of the individual through the adolescent years.

374—**Educational Psychology.** 3-4-0-**Q.** Prerequisite: PSY 110. Application of psychological methods, facts, and principles to education.

385—**Applied Behavior Analysis.** 1-2 hrs. arr. **Q.** Prerequisites: PSY 110, EPY 374, one of EPY 370, EPY 371, or EPY 372 and permission of the instructor. Application of the principles of applied behavior analysis to problems involving human behavior change in an educational context.

470—**Developmental and Educational Psychology for Teaching Interns.** Available to internship students only, arranged through the Office of Student Teaching.

476—**Learning in Adult Education.** 3-4-0-**X.** A study of learning in adulthood, and related to a range of educational programs.

482—**Contemporary Problems in Educational Psychology.** 3-4-0-**X.** May be taken up to nine hours with change of content. Prerequisites: PSY 110, and permission of the instructor. A review of theory and research on selected, contemporary topics in educational psychology.

ELEMENTARY EDUCATION (CIE—115)

301—**Methods and Materials in Arithmetic.** 3-4-0-**Q.** Prerequisite: MAT 210. A course which utilizes modern strategies of psychology and methodology in elementary school mathematics on exploratory, structural, and mastery levels of learning.

305—**Social Studies in the Elementary Grades.** 3-4-0-**Q.** Emphasis is on the social science interdisciplinary approach for content and methodology, problem solving, unit teaching, and thinking.

306—**Language Arts in the Elementary School.** 3-4-0-**Q.** Emphasizes the methods and materials for teaching handwriting, creative writing, listening, speaking, and grammar in grades 1 through 8.

309—**Developing Skills in Reading.** 3-4-0-**Q.** Develops performances required in instructional and recreational reading; and methods and materials used to teach these skills in grades 1 through 8.

311—**Kindergarten and Primary Reading Instruction.** 3-4-0-**Q.** Prerequisites: CIE 306 and 309. Explores primary reading as a developmental process through units on grouping, objectives, media, diagnosis and prescription, and selected approaches.

312—**Middle School Reading Instruction.** 3-4-0-**Q.** Prerequisites: CIE 306 and 309. Explores reading by developing topics on patterns, objectives, materials, approaches, content area reading, and diagnosis and prescription for grades 4 through 8.

317—**Methods and Materials in Children's Literature.** 3-4-0-**Q.** An introduction to children's primary literature, in all forms, and a study of ways in which it is intregrated into the curriculum for enrichment.

318—**Literature for the Middle School.** 3-4-0-**X.** A study of literature appropriate for use in grades 4 through 8 stressing effective use of literature in the school program.

330—**Readiness Programs for Young Children.** 3-4-0-**Q.** A course dealing with varied phases of comprehensive readiness programs for children in elementary school.

343—**Methods and Materials in Elementary Education.** 3-4-0-**Q.** Offered concurrently with student teaching (CIE 482), this general methods course examines materials and methods of teaching pupils in grades four through eight.

403—**Kindergarten—Primary Education.** 3-4-0-**Q.** A practicum designed to give teaching experiences in understanding the social, emotional, and cognitive growth and development of children.

412—**Diagnosis and Remediation of Reading Disability for the Classroom Teacher.** 3-4-0-**Q.** Prerequisites: CIE 306, 309 and 311 or 312. Provides relevant practicum experiences in evaluation and gives extended opportunities in child tutoring appropriate to grades 2-8.

414—**Creative Dramatics for Children.** 3-4-0-**X.** Prerequisite: Consent of the instructor. Fundamentals of organizing and developing creative dramatics programs for elementary school age children are stressed in this course.

415—**Fundamentals of Children's Theatre.** 3-4-0-**X.** Prerequisite: Consent of the instructor. Instruction is focused on the methods and techniques of producing plays for elementary school age pupils.

425—**Methods and Materials in Early Childhood Education.** 3-4-0-**Q.** Offered concurrently with student teaching (CIE 480), this general methods course examines materials and methods of teaching children in kindergarten through grade 3.

427—**Evaluation in Early Childhood Education.** 3-4-0-**X.** Emphasis is placed on evaluative techniques and principles relative to the physical, intellectual, emotional, and social development of young children.

480—**Student Teaching in Lower Elementary.** 9-0-0-**F,W,S.** Prerequisites: CIF 300, CIE 301, 305, 306, 309, 311, EPY 370, 374. Taken together with CIE 425, students who student teach in kindergarten through grade 3 will register for this course.

482—**Student Teaching in Upper Elementary.** 9-0-0-**F,W,S.** Prerequisites: CIF 300, CIE 301, 305, 306, 309, 311, EPY 370, 374. Taken together with CIE 343, students who student teach in grades 4 through 8 will register for this course.

489—**Seminar in Elementary Student Teaching.** 6-0-0-**Su.** Prerequisite: Permission of instructor. Designed to meet the student teaching requirement for noncertified experienced teachers, this course deals with classroom management, programs of instruction, and student role in the educational environment.

490—**Workshop in Aviation Education.** 3-0-0-**Su.** Designed to familiarize teachers and administrators with the role that aviation and space exploration play in developing the school curriculum. May be taken twice for a total of six hours.

401—**The Reading Conference.** 1-0-0-**Su.** An intensive three-day summer quarter program consisting of lectures, group discussion, and demonstration lessons. May be taken three times.

492—**Internship in Kindergarten and Primary Education.** 9-0-0-**X.** Prerequisite: Permission of the Director of Interns. Reserved for those students who are enrolled in the internship program.

493—**Internship in the Middle School.** 9-0-0-X. Prerequisite: Permission of the Director of Interns. Reserved for those students who are enrolled in the internship program.

494—**Workshop in Learning Resources in Early Childhood Education.** 3-4-0-S. Student will become acquainted with learning sources, selection, use, and production of multimedia materials.

496—**Projects in Elementary Education I, II, III.** 3-0-0-X. Designed for school systems planning local projects of curriculum revision and course of study construction.

ENGLISH (ENG—224)

100—**Fundamentals.** 3-4-0-Q. (May not count toward a departmental major or minor.)

101—**Language.** 3-4-0-Q. Studies in the nature of language and practice in its use.

102—**Literature.** 3-4-0-Q. Studies in the nature and function of imaginative literature.

200—**Drama.** 3-4-0-Q.

201—**Fiction.** 3-4-0-Q.

202—**Poetry.** 3-4-0-Q.

300—**Vocabulary Development.** 3-4-0-Q. (May not count toward a departmental major or minor.)

321—**Introductory Short Fiction Writing.** 3-0-0-F,S,Su, 1977

322—**Introductory Poetry Writing.** 3-0-0-W,Su, 1977.

332—**Expository Prose.** 3-0-0-Q.

333—**Technical Writing.** 3-4-0-Q. Prerequisite: Junior standing.

340—**Analysis of Literature.** 3-4-0-Q.

350—**Survey British Literature I.** 3-4-0-W,Su, 1977.

351—**Survey British Literature II.** 3-4-0-F,S,Su,1978

370—**Survey American Literature I.** 3-4-0-F,W,S,Su, 1977.

371—**Survey American Literature II.** 3-4-0-F,W,S,Su, 1978

372—**Afro-American Literature.** 3-4-0-W.

400—**Introduction to Linguistics.** 3-4-0-F.

401—**Advanced Grammar.** 3-4-0-Q.

402—**English Syntax.** 3-4-0-S,Su, 1977.

406—**History of the English Language.** 3-4-0-W,Su, 1978.

409—**Studies in Linguistics.** 3-4-0-W.

410—**Readings in World Literature I.** 3-4-0-F.

411—**Readings in World Literature II.** 3-4-0-W.

413—**The Modern Novel.** 3-4-0-F.

417—**Modern Drama.** 3-4-0-S.

419—**Studies in Comparative Literature.** 3-4-0-Su.

421—**Short Story Writing.** 3-0-0-W.

422—**Poetry Writing.** 3-0-0-F,S.

424—**Traditional Forms of Poetry/Fiction.** 3-4-0-W.

432—**Advanced Expository Prose.** 3-4-0-Q.

451—**Chaucer.** 3-4-0-S.

454—**Shakespeare's Comedies and Tragicomedies.** 3-4-0-F,W,Su, 1978.

455—**Shakespeare's Histories and Tragedies.** 3-4-0-F,S,Su, 1977.

456—**Sixteenth-Century English Literature.** 3-4-0-F.

457—**The Development of British Drama to 1642.** 3-4-0-W.

458—**Seventeenth-Century Prose and Poetry.** 3-4-0-W, 1978.

459—**Milton.** 3-4-0-W,Su, 1976.

460—**British Literature, 1660-1740.** 3-4-0-S, 1978.

462—**British Literature, 1740-1798.** 3-4-0-S, 1977.

464—**The British Novel to 1900.** 3-4-0-W,Su, 1978.

465—**Nineteenth-Century British Literature: Romantic.** 3-4-0-F.

466—**Nineteenth-Century British Literature: Victorian.** 3-4-0-S.

467—**Twentieth Century British Literature.** 3-4-0-W,Su, 1977.

468—**Modern British Poetry.** 3-4-0-W.

469—**Studies in British Literature.** 3-4-0-F,S.

470—**The American Literary Renaissance, 1820-1870.** 3-4-0-F,Su.

471—**The Rise of Realism in American Literature, 1870-1920.** 3-4-0-S,Su, 1978.

472—**American Drama.** 3-4-0-W.

477—**The American Novel. 1920-1960.** 3-4-0-Su, 1978.

478—**Modern American Poetry.** 3-4-0-F,Su, 1977.

485—**Literature of the South.** 3-4-0-W,Su, 1976.

489—**Studies in American Literature.** 3-4-0-W.

492—**Special Problems.** 1-3 hrs. arr. **X.**

CIS 454—**Methods in English—Secondary.** 3-4-0-Q.

ENVIRONMENTAL DESIGN (EVD—812)

140—**Environmental Design I.** 3-4-0-W. The principles of two-dimensional design applied to environmental settings and objects.

221—**Floral Design.** 3-1-4-F,S. Fundamentals of floral arrangement and design.

331—**Textile Design: Fabric Surface Enrichment.** 3-1-4-S. Design on fabric of different compositions and textures with various media.

492—**Special Problems.** 1-6 hrs. arr. **Q.** Directed individual, study planned by the professor and student and approved by the department chairman.

ENVIRONMENTAL TECHNOLOGY (ESC—335)

105—**Environmental Problems I, II.** 1-1-1-Q. Solution of current problems encountered in environmental improvement, environmental monitoring and environmental impact estimations.

205—**Environmental Problems III, IV.** 1-1-1-Q. Intermediate applied problems relating to environmental improvement, environmental monitoring, and environmental impact estimations.

301—**Man in His Environment.** 3-3-0-Q. Some of the physical, biological, social, political and economic problems associated with improving and maintaining impact estimations.

302—**Environmental Improvement Projects.** 3-1-6-W,S,Su. Prerequisite: ESC 301. Carrying an actual environmental improvement project from planning through the implementation stage.

305—**Environmental Impact Statements.** 1-1-0-F-S. Preparation of environmental impacts statements, EIS's, and assessments for projects with significant environmental impact.

330—**Principles of Environmental Health.** 3-3-0-W. An introduction to environmental factors relating to transmission of communicable disease, chemical and physical hazards to man.

401—**Pollution Detection-Water.** 4-2-6-F. Prerequisite: CHE 311 or permission of instructor. Field sampling and testing for water and air pollution emphasizing water pollution.

402—**Pollution Detection-Air.** 4-2-6-W,Su. Prerequisite: CHE 311, ESC 401, or permission of instructor. A continuation of ESC 401 with emphasis on air pollution.

403—**Air, Water, and Solid Waste Management.** 4-2-4-S. A survey of the current methods for the control of air and water pollution as well as the management of solid waste.

411—**Electronics for Scientists.** 4-1-7-Q. Practical electronics needed for maximum utilization of scientific instrumentation, automation, and logic circuits.

431—**Principles of Industrial Hygiene.** 4-2-4-S. The detection and control of harmful agents in the working environment such as vapors, gases, mists, radiation, and sound.

492—**Special Projects.** 1-3-Q.

FINANCE (FIN—615)

301—**Financial Concepts in Industry.** 3-4-0-W,Su. Designed to acquaint the undergraduate technology student with the basic principles of financial administration as applied to industry. Not open to students in the College of Business Administration.

320—**Personal Finance.** 3-4-0-W,Su. A study of the financial problems people encounter in planning and managing their individual affairs.

350—**Bank Administration.** 3-4-0-F,S. Prerequisite: ECO 330. A comprehensive survey of the management of bank funds.

352—**Principles of Investments.** 3-4-0-F,S. Prerequisite: FIN 389. Introduction to security analysis and portfolio theory.

355—**Problems in Bank Administration.** 3-4-0-W. Prerequisite: FIN 350. Indepth analysis, mainly by the case method, of issues relating to bank problems.

389—**Business Finance.** 3-4-0-Q. Prerequisites: ACC 202 and ECO 256. Deals with financial management issues. Emphasis is placed on basic tools and methods of the financial managers.

462—**Security Analysis.** 3-4-0-W,Su. Prerequisite: FIN 352. A research course designed to examine the international, national, industrial, and corporate effect on expected micro-stock prices.

472—**International Business Finance.** 3-4-0-S. Prerequisite: FIN 389. Concerned with the short-and long-haul and long-run financial operations and specific cash and capital management problems of multi-national business.

480—**Financial Management.** 3-4-0-**Q.** Prerequisite: FIN 389. High-level analysis of internal and external financial decision-making issues.

492—**Independent Study.** 3-0-0-**X.** Special research assignment designed to meet the needs of the particular student.

FOOD AND NUTRITION (FN—815)

163—**Food Study.** 3-3-3-**F,W,S.** Study of food science principles and their application in the preparation of foods and food products.

261—**Meal Planning and Table Service.** 3-3-3-**F,W,S.** Prerequisite: FN 163. Emphasis on management of time, energy, and money in selection and purchasing of foods, meal planning, preparation, and serving.

360—**Basic Nutrition.** 2-3-0-**W,S.** Nutritional needs of body and proper selection of foods emphasized.

362—**Nutrition.** 3-4-0-**Q.** Study of the body's need for foods, including the chemistry of digestion, metabolism, and nutritive requirements of body during life cycle.

363—**Child Nutrition.** 3-4-0-**X.** A study of nutritive requirements for young children.

364—**Teaching Food and Nutrition in the Elementary Grades.** 3-4-0-**X.** Course planned to give understanding of materials and methods for teaching nutrition at this level.

430—**Experimental Foods.** 3-2-4-**S.** Elementary research to determine factors affecting standard products.

460—**Advanced Nutrition.** 3-4-0-**F.** Prerequisite: FN 362. Study of current literature for new findings in field of nutrition.

461—**Diet in Disease.** 3-4-0-**W.** Prerequisite: FN 460. Study of diseases influenced by diet and dietary treatment of diseases.

462—**Food Preservation.** 3-3-3-**W,S.** Study of methods and techniques of preserving foods and its storage. Convenience foods studied.

470—**The School Lunch.** 3-3-3-**S.** Designed to give experience in menu planning, records, food buying, and preparing and serving food on quantity level.

492—**Research in Food and Nutrition Problems.** 1-3 hrs. arr. **X.** Prerequisite: Senior standing and permission of the instructor. Special problems course in food and nutrition.

FOOD SCIENCE AND TECHNOLOGY (FST—396)

101—**Introduction to Food Science.** 3-4-0-**X.** Basic concepts, scientific principles and methods employed in selection, preparation, processing, preservation, distribution, and use of foods.

310—**Food Science I.** 3-4-0-**X.** Physical biochemical, and microbiological properties of important classes of food products as they relate to handling, processing, and utilization of foods.

311—**Food Science II.** 3-4-0-**X.** Materials and methods applicable to foods industries in regard to additives, packaging, sanitation, and quality control.

350—**Food Processing Technology I.** 4-2-4-**X.** General characteristics of raw food materials; methods of food preservation; processing objectives; packaging; and water, waste disposal. and sanitation.

351—**Food Processing Technology II.** 4-2-4-**X.** Continuation of FST 350.

405—**Food Process Engineering.** 3-4-0-**X.** Application of chemical engineering principles in food processing.

410—**Food and Drug Laws—Standards and Regulations.** 3-4-0-X. Federal, state, and city food and drug laws, and how they regulate the manufacture, distribution, and use of foods and regulated products.

450—**Food Analysis I.** 4-2-4-X. Principles of official and acceptable chemical, microbiological, and physical methods used in food analysis, and application of these methods to examination of raw and processed foods.

451—**Food Analysis II.** 4-2-4-X. Continuation of FST 450.

489—**Seminar.** 1 hr. arr. X. Discussion of current topics in Food Science and Technology.

492—**Special Problems.** 1-3 hrs. arr. X.

FOREIGN LANGUAGES (FL—228)

100—**English as a Foreign Language.** 3-4-0-Q.* Credit not applicable toward degree.

111—**French: One.** 3-4-0-F,W,Su.

112—**French: Two.** 3-4-0-W,S,Su.

121—**German: One.** 3-4-0-F,Su.

122—**German: Two.** 3-4-0-W,Su.

141—**Italian: One.** 3-4-0-F, 1977.

142—**Italian: Two.** 3-4-0-W, 1977.

151—**Latin: One.** 3-4-0-F.

152—**Latin: Two.** 3-4-0-W.

161—**Russian: One.** 3-4-0-F, 1976.

162—**Russian: Two.** 3-4-0-W, 1976.

171—**Spanish: One.** 3-4-0-F,W,Su.

172—**Spanish: Two.** 3-4-0-W,S,Su.

211—**French: Three.** 3-4-0-S,Su.

212—**French: Four.** 3-4-0-F.

213—**French: Five.** 3-4-0-W.

221—**German: Three.** 3-4-0-S,Su.

222—**German: Four.** 3-4-0-F.

223—**German: Five.** 3-4-0-W.

231—**Greek: One.** 3-4-0-F.

232—**Greek: Two.** 3-4-0-W.

241—**Italian: Three.** 3-4-0-S, 1978

242—**Italian: Four.** 3-4-0-X.

***This and many other FL courses incorporate language laboratory activities during and in addition to classroom instruction. Since the proportion varies within a given course, laboratory hours are not specified.**

251—**Latin: Three.** 3-4-0-S.

252—**Latin: Four.** 3-4-0-X.

261—**Russian: Three.** 3-4-0-S. 1977.

271—**Spanish: Three.** 3-4-0-S,Su.

272—**Spanish: Four.** 3-4-0-F.

273—**Spanish: Five.** 3-4-0-W.

300—**Comparative Phonetics.** 3-4-0-S,X.

301—**Credit for Study Abroad.** 3-9 hrs. arr. Q. Prerequisites: Intermediate knowledge of the language to be studied; prior arrangements for evaluation and receipt of credit. Credit will be granted for systematic study of the language and culture or the language and literature of a foreign area. Study must be under the direction of a recognized teaching institution approved in advance by the Department of Foreign Languages. The department will examine and grade the progress and achievement of the participants in this program before granting credit.

302—**Poetry.** 3-4-0-Su.

303—**Prose Fiction.** 3-4-0-X.

304—**Drama.** 3-4-0-X.

311—**French: Conversational Practicum.** 3-4-0-F,W. May be taken for a total of six hours.

312—**French: Advanced Grammar and Composition.** 3-4-0-S.

321—**German: Conversational Practicum.** 3-4-0-F,W. May be taken for a total of six hours.

322—**German: Advanced Grammar and Composition.** 3-4-0-S.

333—**Greek: Civilization and Literature in Translation.** 3-4-0-S.

353—**Latin: Civilization and Literature in Translation.** 3-4-0-X.

371—**Spanish: Conversational Practicum.** 3-4-0-F,W. May by taken for a total of six hours.

372—**Spanish: Advanced Grammar and Composition.** 3-4-0-S.

400—**Introduction to Exotic Languages.** 3-4-0-X. May be taken for a total of nine hours.

401—**Advanced Credit for Study Abroad.** 3-9 hrs. arr. Q. Prerequisites: Advanced knowledge of the language to be studied; otherwise same as FL 301. (See FL 301.)

402—**Introduction to the Advanced Study of Foreign Literature.** 3-4-0-X.

403—**Translation.** 3-4-0-X. May be taken for a total of nine hours.

404—**Methods of Teaching Foreign Language.** 3-4-0-X. May be taken for a total of six hours.

415—**French: History of Literature** 3-4-0-Q. May be taken for a total of twelve hours.

425—**German: History of Literature.** 3-4-0-Q. May be taken for a total of twelve hours.

431—**Greek: Three.** 3-4-0-S.

432—**Greek: Four.** 3-4-0-F.

435—**Greek: Readings in Literature.** 3-4-0-X. May be taken for a total of nine hours.

455—**Latin: Readings in Literature.** 3-4-0-X. May be taken for a total of nine hours.

475—**Spanish: History of Peninsular Literature.** 3-4-0-**Q.** May be taken for a total of twelve hours.

476—**Spanish: History of Latin American Literature.** 3-4-0-**S.** May be taken for a total of twelve hours.

492—**Special Problems.** 1-3 hrs. arr. **Q.** May be taken for a total of nine hours.

FUNDAMENTALS OF SCIENCE (FS—390)

Fundamentals of Science: Two courses in general physical science and two courses in general biological science of three semester hours credit for each. These courses (the 100 series) consist of lecture demonstration sessions of 200 minutes and 210 minutes per week. These courses are designed to give the non-science major an acquaintance and understanding of certain fundamental principles of the major science disciplines.

Inasmuch as there is overlapping and duplication in these courses and those offered by other science departments of this and other institutions, the student should check carefully with his adviser and/or the Department of Science Education prior to enrolling in these courses.

104—**Physical Science I.** 3-4-0-**Q.** A study of matter and energy in the universe; the forces acting within the universe; and the laws governing these phenomena.

105—**Physical Science II.** 3-4-0-**Q.** The study of elementary and compound substances, the arrangement of forces acting on these substances in the universe.

106—**Biological Science I.** 3-4-0-**Q.** Studies in the general life science with emphasis on the systems of Man.

107—**Biological Science II.** 3-4-0-**Q.** Studies of the diversity of life in plants and animals, history of life, the physical environment social behavior, animals and man in nature.

131—**General Physical Science I.** 3-4-0-**Q.** Prerequisites: Elementary Education major, MAT 210. An investigative approach to study of the interaction of matter and energy with an emphasis upon energy and its transformations.

132—**General Physical Science II.** 3-4-0-**Q.** Prerequisites: Elementary Education major, FS 131. An investigative approach to a study of the interaction of matter and energy with an emphasis upon matter, its structure, and transformations.

133—**General Biological Science I.** 3-4-0-**Q.** Prerequisites: Elementary Education major, FS 132. A study of the basic patterns of life and a modern system of classifying organisms.

134—**General Biological Science II.** 3-4-0-**Q.** Prerequisites: Elementary Education major, FS 133. A study of the function of maintenance, regulation, and reproduction of organisms and of the patterns of interaction between organisms.

GENERAL BUSINESS ADMINISTRATION (GBA—616)

100—**Introduction to Business.** 3-4-0-**F,S.** An introductory course to practically all phases of the business world. Not open to juniors and seniors enrolled in the College of Business Administration.

290—**Fundamentals of FORTRAN.** 3-4-0-**Q.** Prerequisite: MAT 101. Application of internally stored digital computers to business problems through the use of the FORTRAN language.

295—**The Legal Environment of Business.** 3-4-0-**Q.** A study of the interrelationship of law and society and the impact of jurisprudence upon business activity.

311—**Advanced Business Law.** 3-4-0-**Q.** Prerequisite: GBA 295. A detailed emphasis on selected legal topics particularly related to business activity.

375—**Managerial Communications.** 3-4-0-**Q.** Effective principles and practices of written communications and their functional translations in terms of audience evaluation.

400—**Computers in Decision Making.** 3-4-0-**S.** Prerequisites: GBA 290 and ECO 301. Principles of quantitative methods for business decision making under conditions of certainty, uncertainty, and risk.

415—**Government and Business.** 3-4-0-**F,S.** A study of the place of government in the business world with emphasis on controls, regulation, enforcement of competition and subsidies.

440—**Transportation.** 3-4-0-**W.** The principles, practices and problems of transportation that prevail in the United States. Open only to juniors and seniors.

GENETICS (GEN–312)

101—**Heredity and Human Affairs.** 3-4-0-**X.** Will not satisfy core requirements for BIO, MIC, NSG, or MTC. Foundations of human evolutionary, reproductive and hereditary interrelationships, and their significance in social, ethical, and moral problems.

402—**Genetics.** 3-4-0-**Q.** Prerequisite: MIC 101 or BIO 101; one quarter of organic chemistry recommended. The fundamental principles of heredity.

403—**Advanced Genetics.** 4-2-4-**X.** Prerequisite: GEN 402. A continuation of GEN 402.

411—**Physiological Genetics.** 3-4-0-**X.** Prerequisites: GEN 402, 403. Physiological concepts of heredity.

421—**Interpretation of Biological Data.** 3-2-2-**X.** Prerequisites: GEN 402 and permission of instructor. Techniques applicable to the design and interpretation of biological research data.

451—**Medical Genetics.** 3-4-0-**Q.** The basic principles of human genetics with emphasis on the causation of abnormality and disease.

461—**Microbial Genetics.** 4-2-4-**X.** Prerequisites: GEN 402, 403. The genetics and molecular biology of microorganisms and viruses.

492—**Special Problems I, II, III.** 2-6 hrs. arr. **X.** A course in library and/or laboratory research on a problem chosen in consultation with the adviser.

GEOGRAPHY AND AREA DEVELOPMENT (GHY–268)

103—**World Regional Geography.** 3-4-0-**Q.** An introductory course in world regional geography with emphasis on man's relation to the land.

210—**Principles of Cartography.** 3-4-0-**F,S.** Theory and construction of maps from compilation through reproduction: projections design, symbols, and techniques.

223—**Weather and Climate.** 3-4-0-**F,S.** Survey of elements of weather and climate; emphasis on processes, distribution patterns, and impact on man.

224—**Geography of Landforms.** 3-4-0-**W.** Study of structure, process, and stage of geometric configurations of earth's land surface and influences exerted on human activity.

331—**Cultural Systems in the Environment.** 3-4-0-**W.** Geographical analysis of man's interaction with environment through time; considers spatial significance and distribution of various cultural elements.

341—**World Political Geography.** 3-4-0-**F,Su.** Geographic approach to patterns of power and conflict among nations. Consideration of strategic areas, disputed zones, and regional blocs.

350—**Introduction to Economic Geography.** 3-4-0-**F,S.** Principles of economic geography as developed through regional studies of characteristics and areal associations of economic phenomena.

360—**Introduction to Community and Regional Planning.** 3-4-0-F. A review of the fundamentals and historic development of community and regional planning.

361—**Regional Planning and Development.** 3-4-0-W. An introduction to the concepts, techniques, and procedures of regional planning and development.

363—**Community and Regional Planning I: Theory, Methods, and Analysis.** 3-4-0-F. Emphasis on research and analytical techniques applicable to community and regional planning.

364—**Community and Regional Planning II: Comprehensive Planning Elements.** 3-4-0-F. Review and application of techniques and procedures associated with design and preparation of community and regional plans.

370—**Conservation of Natural Resources.** 3-4-0-F. An analysis of basic principles and problems associated with the use, misuse, and conservation of natural resources.

400—**Geography of Mississippi.** 3-4-0-W,Su. Survey of physical, economic, and historical geography of the state; emphasis on man-environment relations and problems.

402—**Geography of the United States and Canada.** 3-4-0-F,Su. Introduction to physical and human geography of U.S. and Canada; emphasis on natural resources and patterns of economic activity.

403—**Geography of South America.** 3-4-0-X. Analysis of settlement forms, resource potential, and development problems and progress by political units.

404—**Geography of the Caribbean Countries.** 3-4-0-X. An historic-geographical approach analyzing spatial relations of cultures and economies in the Caribbean realm.

405—**Geography of the USSR.** 3-4-0-X. A regional survey of the physical, economic, and cultural geography of the USSR.

406—**Geography of Europe.** 3-4-0-X. Topical and regional study of Europe; emphasis on industrial, trade, urban, and other cultural patterns.

407—**Geography of Asia.** 3-4-0-X. Analysis of physical and cultural environments of monsoon Asia; includes evaluation of area's resource and development potential.

408—**Geography of Africa.** 3-4-0-S. Regional synthesis of physical and cultural features which characterize the African continent.

410—**Advanced Cartography.** 3-4-0-X. Prerequisite: GHY 210. Map reproduction techniques, color preparation, scribing, and quantitative symbolization.

411—**Aerial Photography Interpretation.** 3-4-0-F. Systematic treatment of elements and steps involved in interpreting, measuring, and mapping of images appearing on aerial photographs.

412—**Remote Sensing of the Environment.** 3-4-0-W. Prerequisite: GHY 411 or permission of instructor. Survey of theory and application of remotely-sensed imageries generated from aircraft and spacecraft for geographic, environmental, and planning purposes.

413—**Field Methods in Geography.** 3-4-0-S. Consideration of basic methods of geographic analysis used in classifying, analyzing, and reporting field-gathered data.

415—**Quantitative Methods in Spatial Analysis.** 3-4-0-W. Prerequisite: A basic course in statistical methods. Application of statistical and other quantitative techniques to problems of spatial analysis.

416—**Computer Applications in Geography.** 3-4-0-X. Prerequisite: one course in FORTRAN programming. Study and application of computer mapping as a tool of geographic analysis.

417—**Geography for Teachers.** 3-4-0-W,Su. A survey of current theories, practices, and techniques used in teaching geography at the elementary and secondary levels.

422—**Geography of Soils.** 3-4-0-S. Study of formulation, distribution, and use of soils; emphasis on soils of south Mississippi; fieldwork and laboratory analysis.

425—**Environmental Climatology.** 3-4-0-X. Study of climatological aspects of atmospheric pollution; includes chemical, medical, legal, economic, and community-planning dimensions of air pollution.

432—**Perception of the Spatial Environment.** 3-4-0-F. An analysis of man's perception of his cultural-social environment; considers both the physical and man-made landscape.

435—**Historical Geography.** 3-4-0-S. Study of evolution of cultural landscapes of the area now comprising the United States; emphasis on processes of change.

440—**Population and Human Resources.** 3-4-0-W. A geographical analysis of the biological and cultural characteristics of population.

451—**Industrial Location Analysis.** 3-4-0-S. Prerequisite: GHY 350 or permission of instructor. Principles of industrial location analysis; emphasis on theory, locational decision-making, and regional location of manufacturing.

452—**Rural Land Use and Settlement.** 3-4-0-S. Prerequisite: GHY 350 or permission of instructor. Study of characteristic ways that man utilizes rural land—including settlement, landholding, and agricultural patterns.

453—**Transportation and Land Use.** 3-4-0-W. Prerequisite: GHY 350 or permission of instructor. Study of the various transportation modes and the effect they have on contemporary development problems.

460—**Urban Geography.** 3-4-0-F. Prerequisite: GHY 350 or permission of instructor. Review of urban development, processes contributing to development, and effect these processes have on cities.

462—**Environmental Planning.** 3-4-0-W. A detailed study of environmental planning analysis and methodology as an element in land-use decision-making systems.

463—**Transportation Planning.** 3-4-0-X. Examination of travel characteristics and transportation planning and how they relate to the greater goals of the individual and society.

465—**Community and Regional Planning III: Programming and Implementation.** 3-4-0-S. Consideration of various legal and institutional tools related to implementation of community and regional plans.

466—**Public Policy and the Planning Process.** 3-4-0-X. Deals with function of planning process in formulating effective public policy for development of communities and regions.

472—**Forest Resource Management.** 3-4-0-X. Study of forest-management principles and practices related to both private and public forest holdings.

473—**Water Resources.** 3-4-0-F. Study of hydrologic processes and their application to needs of cities, industry, agriculture, and recreation.

474—**Watershed Management.** 3-4-0-X. Investigation of watersheds as planning and management units; emphasis on relationship of water to other resources. Game theory used.

475—**Coastal Zone Management.** 3-4-0-W. Study of coastal-zone problems and conflicts; emphasis on multiple-objective planning and resource-management procedures.

491—**Geography and Planning Internship.** 1-9 hrs. arr. **Q.** May be repeated for a total of nine hours.

492—**Special Problems.** 1-3 hrs. arr. **Q.** May be repeated for a total of six hours.

GEOLOGY (GLY—340)

(See also **SCIENCE**)

101—**Physical Geology.** 3-4-0-Q. The physical processes and materials of man's environment. An introductory course.

102—**Physical Geology Laboratory.** 1-0-4-**Q.** An elementary study of rocks, minerals, and maps.

103—**Historical Geology.** 3-4-0-**Q.** Prerequisite: GLY 101. A study of Earth history as revealed in the character and fossil content of rocks.

104—**Historical Geology Laboratory.** 1-0-4-**Q.** Introduction to the study of fossils and interpretation of geologic maps. Field trips may be required.

105—**Geology for Construction Technologists.** 3-3-2-**X.** Study of geological hazards of building and factors concerned with site selection and preparation.

301—**Mineralogy I.** 3-2-4-**F.** Prerequisites: GLY 101, CHE, 101, 102, 103. Elements of crystallography, silicate structure, and determinative mineralogy.

302—**Mineralogy II.** 3-3-2-**W.** Prerequisite: GLY 301, CHE 361, 362, or 461 is recommended. Elements of chemical and structural mineralogy.

304—**Petrology.** 3-3-2-**S.** Prerequisites: GLY 301, 302. Principles of rock genesis. Lithology, taxonomy and recognition.

306—**Environmental Geology.** 3-4-0-**F.** Material and energy systems as they relate to man and his environmental problems.

308—**Structural Geology.** 3-3-3-**F.** Principles of rock deformation; field trips. Prerequisites: GLY 103 and MAT 103.

310—**Geomorphology.** 3-2-3-**S.** Field trips. Prerequisites: GLY 101, 102. Study of geologic processes involved in landscape development.

341—**Invertebrate Paleontology.** 3-2-4-**W.** Prerequisites: GLY 103 and permission of instructor. Field trips. Taxonomy, morphological features, and geologic distribution of invertebrate fossils.

401—**Principles of Stratigraphy.** 3-4-0-**F.** Weekend field trip. Prerequisites: GLY 301, 308, 341, or permission of instructor.

403—**Optical Mineralogy.** 3-3-3-**W.** Prerequisites: GLY 301 and MAT 103. Introduction to optical mineralogy.

405—**Sedimentology.** 3-2-4-**X.** Prerequisite: GLY 301. Origin of sedimentary particles, sedimentary structures and classification of sedimentary rocks.

407—**Petrography.** 3-3-3-**S.** Prerequisites: GLY 304 and 403. Systematic study of rocks by means of the polarizing microscope.

410—**Elements of Geochemistry.** 3-4-0-**X.** Prerequisite: GLY 301. Chemical processes in the environment as a guide to environmental analysis and geological synthesis.

415—**Clay Mineralogy.** 3-3-2-**S.** Prerequisites: GLY 101, and 302, and CHE 103. Origin, structure, and chemistry of clays, identification techniques, clay-water systems, soil formation and engineering techniques.

420—**Elements of Geophysics.** 3-4-0-**X.** Prerequisites: GLY 101, MAT 103, PHY 103 (or 203), and consent of instructor. Applications of physics to geological investigations.

441—**Paleoecology.** 3-2-3-**X.** Prerequisites: GLY 341 and BIO 461, or permission of instructor. A study of the relationship between ancient organisms and the environment in which they lived; field trips.

443—**Micropaleontology I.** 3-1-6-**X.** Prerequisite: GLY 341. Taxonomy, morphology, and stratigraphic use of Foraminifera; field trips.

450—**Introductory Oceanography.** 3-4-0-**F.** Prerequisites: GLY 103, CHE 103, PHY 103, and consent of instructor. Basic principles of geological oceanography.

452—**Physical Marine Geology.** 3-20-20-**Su.** Gulf Coast Research Laboratory. Prerequisites: GLY 101 and 103. Geological processes sedimentary environments and geomorphological features of marine coastal, intertidal, and near-shore zones.

454—**Chemical Marine Geology.** 3-3-37-**Su.** Gulf Coast Research Laboratory. Prerequisites: GLY 103, 301, and one year of chemistry, or permission of instructor. Supervised research on the chemistry of the coastal waters of Mississippi and geochemistry of the bottoms.

456—**Speical Problems in Marine Science.** 1-6 arr. **Su.** Gulf Coast Research Laboratory. Prerequisites: To be set by Problem Director. Area of Study: Geology.

470—**Petroleum Geology.** 3-2-4-**X.** Prerequisites: GLY 304, 308, 401. The origin, occurrence, and accumulation of oil and natural gas; field trips.

472—**Economic Geology.** 3-3-2-**S.** Prerequisites: GLY 301, 304. Principles of ore genesis.

474—**Geological Excursion.** 1-0-48-**X.** (May be repeated, in a different region, for a total of three hours credit.) Field studies of geological phenomena in areas remote from the campus, by means of 8 to 10 days field trips between quarters.

476—**Hydrology.** 3-4-0-**X.** An introduction to the origin, distribution, movement and properties of the waters of the earth.

492—**Special Problems in Geology.** 3-0-72-**X.** Prerequisites: Senior standing and permission of the departmental head. Independent study or research designed for the needs of the individual students.

HEALTH (HTH—715)

101—**Personal Health.** 3-4-0-**Q.** The human body and its function as related to problems of health and disease. (Not to be included in health and physical education major.)

210—**Introduction to School Health Education.** 3-4-0-**F,S.** An orientation to school health with an historical and philosophical perspective.

310—**First Aid.** 2-4-0-**Q.** Standard First Aid as approved by the American Red Cross. (Not to be included in health and physical education major.)

311—**Emergency Health Care.** 3-4-0-**Q.** Standard first aid plus advanced study certifying personnel to conduct first aid courses in school and community.

315—**Anatomical Structures Related to Movement.** 3-4-0-**Q.** Prerequisites: BIO 101 and 102. A study of the skeletal, muscular, circulatory, and neurological structures pertinent to human movement.

321—**Community Health.** 3-4-0-**S,Su.** Community control of environmental health hazards and diseases; health agencies.

341—**Safety.** 3-4-0-**Q.** Accident problems, safety programs, and methods of prevention.

342—**Education for Safe Living.** 3-4-0-**W,Su.** Curriculum development, community resources, and audiovisual materials for teaching safety.

410—**Health Education in Elementary Schools.** 3-4-0-**Q.** Methods and materials for the elementary teacher with special emphasis on instruction and on coordination of school and community health programs.

411—**Health Education in Secondary Schools.** 3-4-0-**W,S,Su.** Materials and techniques for high school teachers of health; conducting the school health program at the secondary level.

412—**Measurement and Evaluation in Health Education.** 3-4-0-**W.S.** A survey of evaluation instruments for appraising personal health, measuring health knowledge, attitudes, interests, and practices, and the interpretation of these data.

415—**School Health.** 3-4-0-**W,S,Su.** Organization and operation of school health programs with emphasis on policies, procedures, problems, cooperating agencies, and field work.

420—**Communicable and Chronic Disease in Men.** 3-4-0-W,S. Problems, control, and prevention of communicable and chronic disease in modern society.

421—**Sanitation.** 3-4-0-W. Sanitation in the home and school, in food production, water supply, waste, and excreta disposal.

422—**Drugs in Society.** 3-4-0-W,Su. Prerequisites: HTH 101 or permission of instructor. Psycho-social, medical, legal, and health aspects of drugs and their abuse, plus a current analysis of the problem in our society.

423—**Curriculum Development in Alcohol Education.** 3-4-0-S,Su. An analysis of alcoholism, instructional approaches, and community resources for teaching alcohol misuse and abuse.

430—**Marriage and Human Sexuality.** 3-4-0-Q. Physical, emotional, and medical bases for successful courtship, marriage, and parenthood.

435—**Mental Health Education.** 3-4-0-W,Su. A survey of the content and teaching strategies for mental health education.

440—**Introduction to Driver Education.** 3-4-0-Q. Critical analysis of traffic accidents, attitude factors, essential knowledge of automobile operation, and traffic law and regulations.

441—**Traffic Safety Education.** 3-4-0-Q. An in-depth study of the major problems in traffic safety, including driver, pedestrian, engineering, and enforcement.

442—**Laboratory Programs in Driver Education.** 3-4-0-Q. An examination of the aims, objectives, and role of laboratory programs in driver education. Directed laboratory experiences will be provided.

443—**Methods of Driver and Traffic Safety Education.** 3-4-0-Q. Prerequisite: HTH 440. Methods and techniques to develop competence in transferring knowledge and skills as well as inspiring satisfactory attitudes.

444—**Simulation in Driver Education.** 3-4-0-Q. Prerequisites: HTH 440 and HTH 443. An audiovisual instructional method designed to complement and supplement other instructional techniques.

445—**Driver Education Laboratory.** 1-0-1-Q. This course is designed to provide students who are enrolled in HTH 443 with supervised teaching experience.

446—**Innovative Programs of Driver Education.** 3-4-0-W,Su. New and unique adaptations of teaching methods to the broad problems of Driver and Traffic Safety Education.

488—**Motorcycle Education.** 3-4-0-Su. Analysis of the motorcycle traffic problem; methods of teaching classroom and laboratory phases of motorcycle education.

489—**Driver Education for Special Students.** 3-4-0-Su. Curriculum development and teaching materials in traffic safety education for special education students.

492—**Independent Study.** 3-4-0-Q. A student originated problem, research plan, and reporting of results, with guidance of a chosen adviser.

HISTORY (HIS—272)

Economics 310, Religion 432 and 433, and Political Science 420, 421, and 425 may be selected as history if approved by the student's adviser. No more than six (6) hours of these courses may be counted as history credit.

101—**World Civilization to 1648 A.D.** 3-4-0-Q.

102—**World Civilization Since 1648 A.D.** 3-4-0-Q.

140—**United States to 1877.** 3-4-0-Q.

141—**United States Since 1877.** 3-4-0-Q.

300—**World History Since 1945.** 3-4-0-F,S.

301—**Modern China and Japan.** 3-4-0-S.

302—**Science in History.** 3-4-0-S.

310—**The Ancient World.** 3-4-0-F.

311—**The Middle Ages.** 3-4-0-W.

313—**Early English History.** 3-4-0-F.

340—**Afro-American History.** 3-4-0-F.

341—**Mississippi History.** 3-4-0-Q.

342—**U.S. Military History.** 3-4-0-S.

380—**Colonial Latin America.** 3-4-0-F.

381—**Modern Latin America.** 3-4-0-W.

410—**Pre-Revolutionary Russia.** 3-4-0-F.

411—**History of the USSR.** 3-4-0-S.

412—**English Constitutional History.** 3-4-0-S.

413—**Medieval Life and Thought.** 3-4-0-W.

414—**Modern Germany.** 3-4-0-W.

415—**French Revolution and Napoleon.** 3-4-0-F.

416—**Europe, 1815-1870.** 3-4-0-W.

417—**Europe, 1870-1918.** 3-4-0-S.

418—**Europe, 1918-1939.** 3-4-0-W.

419—**Europe Since 1939.** 3-4-0-S.

421—**Tudor-Stuart Britain.** 3-4-0-F.

424—**Modern European Popular Culture.** 3-4-0-F.

425—**Nineteenth and Twentieth Century Britain.** 3-4-0-W.

440—**The Age of Jefferson and Jackson.** 3-4-0-F.

441—**Popular Thought in America.** 3-4-0-S.

442—**The Old South.** 3-4-0-F.

443—**The New South.** 3-4-0-W.

445—**U.S. Foreign Relations to 1914.** 3-4-0-W.

446—**U.S. Foreign Relations Since 1914.** 3-4-0-S.

447—**Colonial America.** 3-4-0-F.

448—**The American Revolution.** 3-4-0-W.

449—**American Political Leaders.** 3-4-0-S.

450—**The Early American Frontier.** 3-4-0-W.

451—**Trans-Mississippi West.** 3-4-0-S.

452—**The Sectional Controversy and the Civil War, 1840-1865.** 3-4-0-S.

453—**Reconstruction and the Emergence of Modern America, 1865-1898.** 3-4-0-F.

454—**The Progressive Era, World War I, Prosperity and Depression, 1898-1933.** 3-4-0-W.

455—**United States Since 1933.** 3-4-0-S.

456—**United States Constitutional History to 1900.** 3-4-0-W.

457—**United States Constitutional History Since 1900.** 3-4-0-S.

480—**History of Mexico and the Caribbean.** 3-4-0-**F.**

481—**History of South America: The Andean Countries.** 3-4-0-**W.**

482—**History of South America: Brazil and the Rio de la Plata.** 3-4-0-**S.**

492—**Special Problems.** 1-3 hrs. arr. **Q.**

HOME ECONOMICS EDUCATION (HEE—820)

111—**Intoduction to Home Economics.** 1-2-0-**F.** A course designed to show the value of home economics in personal and family living, as well as in vocational pursuits.

301—**The Teaching of Home Economics Education.** 3-4-0-**Q.** Prerequisite: Junior standing in home economics. A study of teaching techniques, materials and school procedures, as well as planning and organizing curriculum.

302—**Consumer Education.** 3-4-0-**F,W,S.** Prerequisite: Junior standing. A study of the consumer in the economy with emphasis on making wise decisions in the market place.

402—**Teaching of Home Economics to Adults.** 4-3-3-**F,W,S.** Participation in home economics adult programs with emphasis on those for the lower socio-economic groups.

403—**Student Teaching in Home Economics Education.** 9-0-0-**F,W,S.** Prerequisite: HEE 301 and grade no lower than **B.**

492—**Special Problems in Home Economics Education.** 1-4 hrs. arr. **Q.**

HOTEL AND RESTRAURANT ADMINISTRATION (HRA—818)

179—**Introduction to Hotel and Food Service Management.** 3-4-0-**F.** An introductory course in hotel, restaurant, and other food service operations. Development, current trends, and analysis of operations within the industry.

475—**Food and Beverage Management.** 3-3-3-**W.** Basic principles and procedures of effective beverage selection, control, and management. Study of foods related to beverage service.

476—**Hotel and Motel Administration.** 3-3-0-**W.** Organization, management, and operating procedures of hotels, motels, and other tourist facilities. Relationship of services within system.

478—**Seminar in Hotel and Restaurant Industry.** 1-6 hrs. arr. **X.** Discussion and analysis of principles, trends, and practices in the industry.

479—**Internship in Hotel, Motel, and Food Service.** 9 hrs. arr. **X.** Organized on the job learning experience in hotel and food service supervised by employer and coordinator of instruction.

HOUSING AND HOME MANAGEMENT (HHM—825)

340—**Housing and House Furnishings.** 3-4-0-**W.** Prerequisite: CT 332. A study of the economic and sociological problems in housing and house furnishings.

345—**Household Equipment.** 3-3-2-**F,W,S.** Prerequisite: FN 261. A study of the selection, operation, care, repair, and arrangement of appliances in the home.

401—**Demonstration Techniques.** 3-4-0-**X.** Planning and conducting demonstrations for professional home economists.

441—**Field Work in Equipment.** 9 hrs. arr. **S.** Field work for those planning to become home economists in equipment.

442—**Economics of the Home.** 3-4-0-**Q.** Problems of homemaking relating to wise use of resources.

443—**Home Management Residence.** 4 hrs. arr. **Q.** Prerequisites: FN 362 and HHM 345. (HHM 442 to be taken concurrently.)

492—**Special Problems in Housing and Home Management.** 1-4 hrs. arr. **X.** A Housing—Prerequisite: HHM 340. B. Equipment—Prerequisite: HHM 345.

INDUSTRIAL AND VOCATIONAL EDUCATION (IVE—165)

116—**General Shop.** 3-3-3-**F.** Introduction to a variety of industrial materials and processes. A multiple activity emphasis in crafts.

121—**Engineering Drawing I.** 3-3-3-**F,Su.** Introduction to mechanical drafting.

122—**Engineering Drawing II.** 3-3-3-**W,Su.** Prerequisite: IVE 121. A continuation of mechanical drafting.

301—**Applied Electricity.** 3-3-3-**F,Su.** Introduction to electrical theory. Laboratory experience with basic communications and industrial circuits.

302—**Applied Electronics.** 3-3-3-**W,Su.** Prerequisite: IVE 301. A continuation of electron theory and laboratory experience with communications and industrial circuits.

303—**Industrial Electronics.** 3-3-3-**S.** Prerequisite: IVE 302. Solid state integrated circuits. Printed circuit board fabrication and trouble-shooting.

310—**Industrial Design.** 3-3-3-**X.** Introduction to design for industrial education teachers.

314—**Leather Craft.** 3-3-3-**S.** Designing, tooling, carving, and finishing leather products.

315—**Plastics.** 3-3-3-**W,Su.** Materials in common use, project design, and fabrication.

316—**Power Mechanics.** 3-3-3-**S,Su.** Development and use of all forms of power. Laboratory experiences with gasoline engines.

317—**Photography in Industrial Arts.** 3-3-3-**W.** Use of photography in the industrial arts curriculum.

318—**Materials and Processes of Industry.** 3-4-0-**F,S.** A study of manufacturing methods with a wide variety of industrial materials.

319—**Industrial Arts for Elementary Teachers.** 3-4-0-**S.** A methods course for elementary teachers.

323—**Engineering Drawing III.** 3-3-3-**S,Su.** Prerequisite: IVE 122. Continuation of mechanical drafting.

324—**Engineering Drawing IV.** 3-3-3-**X.** Prerequisites: ITE 323 and instructor's permission. A study of drafting techniques in solving unusual problems.

325—**Descriptive Geometry.** 3-3-3-**X.** Drawing board application of geometric principles used in engineering, architecture, etc.

331—**Woodwork.** 3-3-3-**Q.** Introduction to woodworking tools; materials, processes, and products.

332—**Finishing Materials and Applications.** 3-3-3-**Q.** A course covering equipment, materials, and techniques.

333—**Advanced Woodwork.** 3-3-3-**Q.** Prerequisite: IVE 331. Emphasis upon design, machine use, and advanced project construction.

334—**Wood Technology.** 3-3-3-X. Prerequisites: IVE 331 and instructor's permission. Advanced techniques applied to veneers, plywoods, adhesives, etc.

350—**Architectural Drawing.** 3-3-3-F,S. Practice in drafting contemporary house plans: Floor plans, elevations, sections, details etc.

360—**General Metals.** 3-3-3-F. Introduction to the field of metal working.

361—**Sheet Metal Fabrication.** 3-3-3-W,S. Pattern making and metal forming processes.

362—**Machining Processes.** 3-3-3-F,S. Typical machine operations including turning, drilling, milling, etc.

364—**Welding.** 3-3-3-Q. Theory and practice in gas and arc welding.

365—**Casting Technology.** 3-3-3-W,S. Investigations and laboratory experiences in casting processes.

366—**Decorative Metal Work.** 3-3-3-X. Designing, constructing, and finishing of decorative objects in nonferrous metals.

400—**Shop Planning and Equipment Selection.** 3-4-0-F. A study of shop layout, equipment specifications, costs, and procurement.

401—**Shop Care and Management.** 3-4-0-F,W,Su. Organization of students and physical facilities.

402—**History and Philosophy of Industrial Arts.** 3-4-0-X. A study of the underlying foundations and principles, leaders, and movements in industrial arts.

403—**Occupational Analysis and Course Construction.** 3-4-0-X. Analyzing occupations into their basic components and arranging for instructional purposes.

404—**Problems of the Coordinator.** 3-4-0-S. A study of the problems, procedures, techniques, etc., in the operation of part-time cooperative education.

420—**Industrial Materials Testing.** 3-3-3-W,S. A systematic study of common industrial materials, their properties, and application through experiments and research.

421—**Power Transmissions.** 3-3-3-W. A study of mechanical, hydraulic, pneumatic, and electrical power amplification and transmission.

431—**Principles of Trade and Industrial Teaching.** 3-4-0-W,S,Su. A methods course for teaching trade and industrial subjects.

432—**Problems of Adult Education.** 3-4-0-X. Methods and techniques in teaching adults in industrial education classes.

433—**Curriculum Construction for Cooperative and Adult Vocational Classes.** 3-4-0-X. Objectives, content, arrangement and techniques of teaching in part-time cooperative and evening programs.

434—**Occupational Surveys.** 3-4-0-X. Planning and conducting occupational surveys for educational purposes.

435—**Instructional Materials for Industrial Education.** 3-4-0-X. Indentification, selection, development, and use of instructional aids in vocational and technical education.

436—**Curriculum Construction for Vocational Technical Education.** 3-4-0-Su. Principles, practices, and techniques in planning and establishing a class or program in vocational technical education.

480—**Foundations and Philosophy of Vocational Technical Education.** 3-4-0-Su. Objectives, principles, aims, and organization of programs in schools and colleges.

481—**Testing and Evaluation in Vocational Education.** 3-4-0-S,Su. Development and utilization of various measuring devices and techniques.

482—**Industrial and Vocational Safety.** 3-4-0-F,W,Su. Analysis of fundamentals of accident prevention and their application in school and industrial shops.

483—**Occupational Safety.** 3-4-0-X. Organization and administration of safety programs including implementation of the Occupational Safety and Health Act. Primarily for industrial educators.

492—**Industrial Special Problems.** Hrs. arr. Prerequisites: Senior standing and chairman's permission.

INDUSTRIAL TECHNOLOGY CURRICULUM (INT–395)

300—**Manufacturing Processes.** 3-2-4-X. Study of methodologies of combining principles to create a manufacturing process.

306—**Electrical Power System Instrumentation.** 3-2-4-X. Instrumentation and techniques for monitoring electrical power system operation.

308—**Industrial Instrumentation.** 3-4-0-X. Modern methods of measurement and control of process variables; temperature, pressure, liquid level, flow, etc.

312—**Time Domain Analysis and Modeling of Electrical/Electronic Circuits.** 4-3-3-X. Prerequisite: Permission of instructor. Network analysis with applications of differential equations for analysis and modeling of devices and circuits.

405—**Production Technology.** 3-2-4-X. Plant layout, materials handling, production evaluation, set-up and maintenance procedures.

406—**Industrial Automation.** 3-4-0-X. A study of the major systems of automation and their implication in an industrial operation including the productive, economic, interpersonal and supervisory aspects.

407—**Personnel in Technology.** 3-4-0-X. Concepts, principles, techniques, and programs essential to the procurement, development, and utilization of technical personnel.

408—**Innovations in Technology.** 3-4-0-X. Introduction to factors involved in technological change within an industrial operation.

409—**Plant Layout.** 3-2-4-X. Effectiveness of plant layout to the production activity, involving pesonnel, materials, tools and equipment.

413—**Modern Filter Design.** 4-3-3-X. Prerequisite: Permission of instructor. Design of active and passive filters; emphasis on active RC filters.

432—**Logic Circuitry.** 4-3-3-X. Prerequisite: Permission of instructor. Logic circuit design: Gates, flip-flops, etc. Emphasis on circuit design.

434—**Design of High-Frequency Communication Circuits.** 4-3-3-X. Prerequisite: Permission of instructor. Design of communication circuits and systems; emphasis on bipolar device circuitry.

440—**Alternate Energy Systems.** 3-4-0-X. Study of alternative sources of energy and power.

442—**Electrical Energy Systems.** 3-4-0-X. Prerequisite: Permission of instructor. AC and DC motors and generators: theory, applications, and control.

443—**Power Plants.** 3-4-0-X. Study of stationary power plants, economics, efficiency, components, fuels, and typical industrial applications.

461—**Electrical Power Generation and Distribution.** 4-3-3-X. Prerequisite: INT 312. AC and DC generation and distribution systems, overload and safety systems. Introduction to power grid design and layout.

462—**Power System Economics.** 3-4-0-X. Prerequisite: INT 461. Economics of power system operation: cost analysis, rate determination, optimum system operation.

463—**Computer Methods in Electrical Power.** 3-4-0-X. Prerequisite: INT 461. Computer-aided analysis of electrical power systems. Use of the analog and digital computer in system monitoring and development.

491—**Seminar.** 2-2-0-X. Prerequisite: INT 461 and senior standing. Tours, guest lecturers, student presentations, and discussions of the latest methods in the field.

INSTITUTION ADMINISTRATION (IAD–817)

271–**Problems in Managing a School Cafeteria.** 3-4-0-**X.** Course in the organizational structure of the federal school lunch program. Emphasis placed on management procedures.

272–**Basic Principles of Quantity Food Service.** 3-3-3-**X.** Emphasis on planning, preparation, and service for large groups.

273–**Sanitation for Institutions.** 3-4-0-**X.** Emphasis on all phases of sanitation.

370–**Catering.** 2-2-2-**S.** Principles, techniques, and implementation of special functions in food service.

471–**Institution Food Purchasing.** 3-4-0-**W.** Prerequisite: Junior standing. Investigation of marketing conditions, sources, standards, grades, methods, and storage of classes of foods.

472–**Quantity Food Production and Service.** 4-4-4-**F.** Emphasis on actual food preparation and serving on quantity level.

473–**Food Systems Management.** 4-4-4-**W.** Prerequisite: IAD 472. Organization, financial control, and personnel management for institution food departments.

474–**Layout and Equipment.** 3-4-0-**S.** Prerequisite: Junior standing. A study of the layout and function of physical facilities with emphasis on arrangement, selection, cost, and care of equipment.

JOURNALISM (JOU–212)

102–**Beginning Reporting.** 3-2-2-**Q.**

103–**Intermediate Reporting.** 3-2-2-**Q.** Prerequisite: JOU 102. Application of news gathering and writing techniques with emphasis on interviews, speeches and press conferences.

140–**Elements of Photography.** 3-2-2-**Q.**

240–**Visual Journalism.** 3-4-0-**F.** Study and use of the elements of design as used in the photographic image.

300–**Journalism Laboratory.** 1-0-3-**Q.** (May be repeated twice.)

301–**Feature Writing.** 3-3-1-**F,S.** Writing and marketing magazine articles.

311–**Editing.** 3-2-2-**W.**

312–**Design Typography.** 3-3-1-**W.** General survey of type and printing development. Practical exercises in preparation of camera-ready copy through production.

313–**Newspaper Design and Make-Up.** 3-2-2-**S.** Prerequisite: JOU 311.

315–**Editorial Writing.** 3-2-2-**S.**

331–**Print Media Advertising.** 3-3-1-**W.** Study and practical assignments in copy writing and designing advertising layouts.

340–**Photojournalism.** 3-2-2-**Q.** Prerequisite: JOU 140.

342–**History of Still Photography.** 3-4-0-**W.**

402–**Advanced Reporting.** 3-2-2-**F,S.** Prerequisite: JOU 103. Public affairs reporting emphasizing coverage of city and county governments and the courts.

403–**Specialized Reporting.** 3-2-2-**W.** Prerequisite: JOU 103. Emphasis on methods of in-depth research and news gathering with writing designed for specific publications.

405–**Problems in Newspaper Production.** 3-1-4-**Su.** Practical training in the production of student newspaper and advising of staffs.

418—**Practicum in Journalism.** 3-0-4-**S.** Prerequisite: JOU 103 for practicum in news-editorial program; JOU 340 for practicum in photo-journalism; JOU 331 for practicum in advertising.

421—**Public Relations.** 3-4-0-**F.**

422—**Publicity Methods.** 3-3-1-**W.** Prerequisite: JOU 102.

425—**Business and Professional Publications.** 3-2-2-**W.**

428—**Public and Press Relations Management.** 3-4-0-**Su.**

440—**Advanced Press Photography.** 3-2-2-**W.** Prerequisite: JOU 340

442—**Commercial Print Media Photography.** 3-2-2-**S.** Prerequisite: JOU 340.

450—**History of Journalism.** 3-4-0-**F.**

452—**Press and Society.** 3-4-0-**W,Su.** Study of the relationship between the press and the culture and institutions of society.

460—**Law of the Press.** 3-4-0-**F.**

470—**Newspaper Organization and Management.** 3-4-0-**S.**

492—**Special Problems.** 1-3 hrs. arr. **X.**

LIBRARY SCIENCE (LS—170)

101—**Introduction to the Library.** 1-1-1-**Q.** Basic course in keys to information resources. Intended for non-library science majors.

301—**Book Selection.** 3-3-0-**X.** Principles involved in selecting all types of learning materials; evaluation of selection tools.

302—**Books and Related Materials for Children.** 3-3-0-**W,Su.** Extensive reading and viewing of materials available for children; effective use of materials studied.

303—**Books and Related Materials for Youth.** 3-3-0-**S,Su.** Extensive reading of modern books for high school students; evaluation of audiovisual materials for the young adult.

415—**Organization and Administration of School Libraries I.** 3-3-0-**X.** The study of the library as a force for educational excellence in any school; day-to-day administration and organizational routines.

416—**Organization and Administration of School Libraries II.** 3-3-0-**X.** Continuation of LS 415.

427—**School Library Reference Materials I.** 3-3-0-**X.** A study of the basic information sources and methods for locating information.

428—**School Library Reference Materials II.** 3-3-0-**W,Su.** Further theory of reference services; some of the current problems that challenge reference librarians.

462—**Classification and Cataloguing I.** 3-3-0-**X.** A study of the basic principles and methods of cataloguing; introduction to Dewey Decimal Classification.

463—**Classification and Cataloguing II.** 3-3-0-**X.** Prerequisite: LS 462. Expansion of the principles and methods of classification and cataloguing with attention given to more advanced problems.

470—**Selection and Organization of Multi-Media Materials.** 3-3-0-**Q.** Principles and methods of developing multi-media materials and services in libraries.

471—**Library Preparation and Production of Multi-Media Materials.** 3-3-0-**F,S.** Prerequisite: LS 470 or CIF 416. Fundamental techniques for design and production of multi-media materials.

472—**Administration and Supervision of School Media Centers.** 3-3-0-**W,Su.** Prerequisites: LS 415 and LS 470 or CIF 416. A survey of current trends in the management and services of school library media centers.

489—**Practice Work.** 4-0-0-**Q.** Culmination course for non-teaching majors in library science. Approximately 150 hours of supervised library experience.

490—**School Library Problems.** 2-4 hrs. arr. **Q.** Individual investigation of topics to be approved by the department chairman.

491—**Library Administration Workshop.** 3-3-0-**Su.** Intensive two-week workshop on problems of media center administration. May be taken twice; only three hours of credit can be applied to degree requirement.

MANAGEMENT (MGT--620)

360—**Fundamentals of Management.** 3-4-0-**Q.** A study of the concepts and principles applicable to planning, organizing, staffing, directing, and controlling production processes and human behavior in organizations, with consideration for the social, legal, and economic environments.

362—**Fundamentals of Industrial Management.** 3-4-0-**F,W,Su.** Prerequisite: MAT 112 or equivalent. Principles and policies in managing an industrial plant, including location, layout, purchasing, materials handling, maintenance, and production control.

364—**Personnel Management.** 3-4-0-**Q.** The concepts and tools of personnel management with emphasis on procuring, developing, maintaining, and utilizing an effective work force.

370—**Labor Law and Legislation.** 3-4-0-**Q.** A study of legislation and court decisions pertaining to current labor-management relations.

386—**Safety Management.** 3-4-0-**Q.** A study of occupational accident prevention and current legislation regarding occupational health and safety.

454—**Human Relations.** 3-4-0-**Q.** A study of individual and group interaction and behavior in organizations, including motivation and conflict.

455—**Behavioral Issues in Organizations.** 3-4-0-**S.** An experiential study of organizational behavior dealing with the individual, the small group, and the total organization with emphasis on development of leadership, communication, and motivational skills.

456—**Industrial Training.** 3-4-0-**F,W.** A study of methods, procedures, and psychology in planning and organizing effective in-service training and development programs for employees and management.

464—**Work Methods and Performance Standards.** 3-4-0-**F,S.** Prerequisites: MGT 362 and elementary statistics. Fundamentals of operation analysis, motion economy, time study, job standards, and work methods improvement.

466—**Production and Quality Control.** 3-4-0-**W,S.** Prerequisites: MGT 362 and elementary statistics. Problems in management relating to production and quality of output, with emphasis on techniques to achieve minimum cost.

468—**Compensation Administration.** 3-4-0-**Q.** Prerequisite: MGT 360. Problems in wage and salary administration including job analysis, job evaluation, incentive systems, wage survey, and fringe benefits.

472—**Collective Bargaining.** 3-4-0-**W,S,Su.** Prerequisite: MGT 370. An integrated study of collective bargaining theory and practical application, augmented with cases and role playing.

476—**Managerial Systems Analysis.** 3-4-0-**W,S.** Prerequisite: MGT 362. Management in systems and procedures for improving managerial controls and reducing operating costs.

482—**Production Problems Seminar.** 3-4-0-**F,S.** Prerequisite: Background in industrial management. A case approach to production problems and policies including such areas as selection and maintenance of equipment, product mix and quality, and production controls.

484—**Problems in Personnel Administration.** 3-4-0-**Q.** Prerequisite: Background in personnel management. An application of the principles and techniques of personnel administration through the use of case analysis, incidents, and role playing.

485—**Administrative Policy and Decision Making.** 3-4-0-**Q.** Prerequisite: Completion of business core. A study of administration under conditions of uncertainty including the development, analysis, and implementation of policies dealing with production, marketing, finance, and personnel and their overall integration. Case problems and a computer game are utilized in the course.

496—**Small Business Consulting.** 3-0-0-**W,S.** Prerequisite: Completion of business core and recommendation of department chairman. Actual problem solving in business.

MARKETING (MKT—625)

300—**Principles of Marketing.** 3-4-0-**Q.** An integrated managerial-systems approach to the study of the marketing function in organizations. Development of marketing concepts, institutions, functions, and policies are analyzed within the framework of the competitive, legal, economic, and social environment.

322—**Creative Marketing.** 3-4-0-**Q.** Prerequisite: MKT 300. An introductory course in problem-solving techniques which emphasizes creative problem-solving methodology, information processing strategies, and interpersonal behavior in task-oriented groups applied to marketing.

330—**Salesmanship.** 3-4-0-**Q.** Prerequisite: MKT 300. An analysis of the ethics, functions, and techniques of professional selling using a behavioral and managerial approach.

342—**Principles of Retailing.** 3-4-0-**Q.** The operation of retail stores including location, display, merchandise planning and control.

355—**Principles of Advertising.** 3-4-0-**Q.** An introduction to the field of advertising including the background and social impact of today's advertising media selection, copywriting layout, visualization, and typography.

365—**Consumer Behavior.** 3-4-0-**Q.** Prerequisite: MKT 300. Analysis of human behavior in the market place. Emphasis is placed on applying concepts from the social sciences to understanding consumer decision processes, buying patterns, and consumer research.

380—**Industrial Marketing.** 3-4-0-**W,Su.** Prerequisite: MKT 300. Special problems involved in marketing materials, equipment, and supplies to manufacturers, and other business firms.

424—**Marketing Research.** 3-4-0-**Q.** Prerequisite: MKT 300 and ECO 302. A study of the systems, methods, and procedures used in meeting the informational needs of managers in the marketing area for both quantitative and qualitative marketing data.

428—**Marketing Management.** 3-4-0-**Q.** A comprehensive course designed to synthesize the more specialized marketing knowledge of the student, through the study of case histories.

430—**Sales Management.** 3-4-0-**W,Su.** Prerequisites: MKT 300 and MKT 330. A study of the methods and procedures involved in selection, training, organization, compensation, supervision, and evaluation of salesmen using the modified case method of instruction.

442—**Advanced Retailing.** 3-4-0-**W.** Prerequisite: MKT 300 and MKT 342. An examination of specific problem areas in retail store management including retail innovations, spatial competition, and retail mix development.

455—**Advanced Advertising.** 3-4-0-**Q.** Prerequisite: MKT 355. An application of the principles of advertising including areas in trademarks, packaging, research, campaigns, and direct advertising.

458—**Promotion Development.** 3-4-0-**F,S.** Prerequisite: MKT 355 or consent of instructor. A practical application and integration of the basic principles from the areas of advertising, personal selling, sales promotion, public relations, and publicity. A modified case approach is used in the course.

495—**International Marketing.** 3-4-0-**W.** Prerequistie: MKT 300, and MGT 360. The economic, political, and cultural aspects of international business operations.

MARRIAGE AND FAMILY LIFE (MFL—830)

150—**Social Competencies.** 2-3-0-**Q.** A course designed to help the student develop competencies in social interaction.

151—**Personal Development and Interpersonal Relationships.** 3-4-0-**S.** Identifying student interests and problems arising out of the college life.

351—**Marriage and Family Living.** 3-4-0-**Q.** Prerequisite: Junior or senior standing. A course designed to give better understanding of the factors that contribute to success and happiness in marriage.

451—**Seminar in Marriage Adjustments.** 3-4-0-**X.** Prerequisite: Engaged or married couples or MFL majors. Broad areas of marriage adjustment with emphasis on needs and interests of the group.

452—**Parenthood.** 3-4-0-**X.** Prerequisite: MFL 351 or permission of instructor. Preparation for parenthood. Family planning, role analysis, and family interaction.

492—**Special Problem in Marriage and Family Living.** 1-4 hrs. arr. **X.** Prerequisites: MFL 351 and consent of instructor.

MATHEMATICS (MAT—350)

101—**College Algebra.** 3-4-0-**Q.** Polynomials, factoring, functions and graphs, linear and quadratic equations and inequalities.

103—**Plane Trigonometry.** 3-4-0-**Q.** Trigonometric functions and their inverses, trigonometric identities and equations, solutions of triangles, logarithms.

111—**Mathematical Calculations.** 1-1-0-**X.** Use of mini-calculators to obtain numerical results through the application of a variety of basic mathematical formulas.

112—**Applied Algebra for Problem Solving.** 3-4-0-**Q.** Prerequisite: MAT 101. Sets, relations, functions, graphs, logarithms, sequences, interest, equations, matrices, inequalities.

120—**Mathematics for the Arts and Humanities.** 3-4-0-**Q.** Basic mathematical concepts from logic, algebra, probability, statistics, computers, and modern applications.

The above courses are open only to freshmen. Other students desiring to take these courses must have approval from the chairman of the Mathematics Department.

131—**Algebra for Technology.** 3-4-0-**Q.** Basic college algebra with applications to modern technology.

133—**Trigonometry for Technology.** 3-4-0-**Q.** Prerequisite: MAT 131. Development of basic concepts from trigonometry with specific applications to modern technology.

171—**Analytic Geometry.** 3-4-0-**Q.** Prerequisite: Trigonometry. Equations of lines, conic sections, rectangular and polar coordinates, translation and rotation of axes.

199—**Developmental Mathematics.** 3-4-0-**Q.** Fundamental operations with integers, rational numbers, and real numbers; set language, elementary algebra. (Will not satisfy core requirement.)

210—**Mathematics for Elementary Teachers I.** 3-4-0-**Q.** The real number system and its major subsystems: natural numbers, integers, rational numbers. (Open only to elementary and special education majors.)

236—**Introduction to Calculus in Technology.** 3-4-0-**Q.** Prerequisite: MAT 133. An introduction to plane analytic geometry, differentiation and integration with applications to curvilinear motion, related rates, curve sketching and areas.

237—**Applications of Calculus in Technology.** 3-4-0-**Q.** Prerequisite: MAT 236. Continuations of techniques of differentiation and integration. Applications of calculus involving areas, volumes, centroids, and moments of inertia and an introduction to first and second order differential equations.

276—**Calculus I.** 3-4-0-**Q.** Prerequisite: MAT 103. Functions, limits, differentiation, integration.

277—**Calculus II.** 3-4-0-**Q.** Prerequisite: MAT 277. Applications of differentiation and integration, trigonometric and transcendental functions.

310—**Mathematics for Elementary Teachers II.** 3-4-0-**Q.** Prerequisite: MAT 210. Basic concepts of algebra and informal geometry. (Open only to elementary and special education majors.)

312—**Applied Mathematics for Business Decision Making.** 3-4-0-**X.** Prerequisite: MAT 112. Introduction to linear programming, elementary functions, differential and integral calculus with applications. (A student who receives credit for at least one of the calculus courses, MAT 276, 277, 378, 379, cannot use this courses to satisfy any degree requirements.)

326—**Linear Algebra I.** 3-4-0-**Q.** Prerequisite: MAT 276. Vector spaces, systems of linear equations, linear transformations, matrices, inner products.

341—**Foundations of Mathematics.** 3-4-0-**Q.** Prerequisite: Consent of instructor. Logic, set theory, relations, functions, cardinal numbers.

378—**Calculus III.** 3-4-0-**Q.** Prerequisite: MAT 277. Techniques of integration, parametric equations, polar coordinates, vectors.

379—**Calculus IV.** 3-4-0-**Q.** Prerequisite: MAT 378. Partial differentiation, multiple integrals, indeterminate forms, infinite series.

405—**Introduction to Differential Equations I.** 3-4-0-**Q.** Prerequisite: MAT 378. Linear ordinary differential equations with applications to physics, chemistry, and engineering, an introduction to power series solutions.

410—**Mathematics for Teachers of Junior High School Mathematics.** 3-4-0-**W,Su.** Numbers and infinite sets, geometry, non-Euclidean geometry, coordinate geometry, trigonometry, functions, probability, statistics. (Open only to elementary and special education majors or as an elective for mathematics majors.)

411—**Vector Analysis.** 3-4-0-**X.** Prerequisite: MAT 379. Vector valued functions, space curves, line and surface integration with introduction to the divergence theorem, Green's and Stokes theorems.

415—**Introduction to Differential Equations II.** 3-4-0-**X.** Prerequisite: MAT 405. Systems of linear differential equations, characteristec equations, operator methods, approximating solutions, Laplace transforms.

417—**Partial Differential Equations.** 3-4-0-**X.** Prerequisites: MAT 405 and MAT 411. Integrability conditions, quasilinear and linear equations, applications to physics, classification of second order equations and canonical forms, separation of variables.

418—**Linear Programming.** 3-4-0-**X.** Prerequisite: MAT 326. Convex sets, linear inequalities, extreme-point solutions, simplex procedure, applications.

420—**Statistics and Probability.** 3-4-0-**X.** Prerequisite: MAT 341. Permutations, combinations, binomial and multinomial theorems, induction, graphic methods, basic statistical concepts.

421—**Number Theory.** 3-4-0-X. Prerequisite: MAT 341. Induction, well-ordering, division algorithm, Euclidean algorithm, Fundamental Theorem of arithmetic, number theoretic functions, congruences.

423—**Modern Algebra I.** 3-4-0-X. Prerequisite: MAT 341. Development of the integers, rational, real and complex numbers bases on properites of the natural numbers.

424—**Modern Algebra II.** 3-4-0-X. Prerequisite: MAT 423. Subgroups, normal subgroups, quotient groups, permutation groups, homomorphisms and automorphisms of groups, Cayley's theorem.

425—**Fourier Series.** 3-4-0-X. Prerequisites: MAT 326 and MAT 405. Orthogonal functions, Fourier series, convergence and applications.

426—**Linear Algebra II.** 3-4-0-X. 3-4-0-X. Prerequisite: MAT 326. Determinants, ploynomials, complex numbers, single linear transformations, orthogonal, unitary and symmetric linear transformations.

430—**Introduction to Applied Mathematics.** 3-4-0-X. Prerequisites: MAT 326, MAT 405, CSS 240. Applications of ordinary and partial differential equations to dynamical and electrical systems, heat transfer and diffusion problems.

435—**Laplace Transform.** 3-4-0-X. Corequisite: MAT 405. Transforms, inverse transforms, convolution theorem, differentiation and integration of transforms, applications to differential equations.

436—**Theory of Functions of a ComplexeVariable I.** 3-4-0-X. Prerequisite: MAT 379. Complex numbers and functions, limits, continuity, differentiation, analytic functions, branches, contour integration, series.

441—**Advanced Calculus I.** 3-4-0-F. Prerequisites: MAT 379 and MAT 341. Point set theory, sequences, continuity, uniform continuity, limits, mean value theorems, L'Hospital's rule.

442—**Advanced Calculus II.** 3-4-0-AW. Prerequisite: MAT 441. Riemann integration, Taylor's theorem, improper integrals, infinite series, uniform convergence.

443—**Advanced Calculus III.** 3-4-0-S. Prerequisite: MAT 442. Directional derivatives, partial derivatives, differentials, inverse and implicit functions.

460—**Numerical Analysis I.** 3-4-0-X. Prerequisites: MAT 326, MAT 379, CSS 240. Methods of solving equations and systems of equations, error analysis, difference equations.

461—**Numerical Analysis II.** 3-4-0-X. Prerequisites: MAT 405, MAT 460, CSS 340. Interpolating polynomial, numerical differentiation and integration, numerical solutions of differential equations, round off error.

470—**Geometry.** 3-4-0-F,S. Prerequisites: Secondary school geometry and MAT 341. Modern Euclidean geometry, non-Euclidean geometries, historical topics.

473—**Metric Spaces.** 3-4-0-X. Prerequisite: MAT 341. Continuity, Hausdorff and countability axioms, products, Euclidean spaces, connectedness, compactness, Heine-Borel and Bolzano-Weierstrass theorems.

475—**General Topology I.** 3-4-0-X. Prerequisites: MAT 341 and MAT 378. General topological spaces, bases and subbases, continuity.

476—**General Topology II.** 3-4-0-X. Prerequisite: MAT 475. Connectedness, separation axioms, countability axioms, compactness, metrizability.

492—**Special Problems I, II.** 1-3 hrs. arr. X. Prerequisite: Approval of department chairman.

494—**Undergraduate Mathematics Seminars I, II.** 1-1-0-X. Prerequisite: Consent of instructor. Topics of current interest.

MECHANICAL TECHNOLOGY CURRICULUM (MET-397)

313—**Mechanical Production Technology.** 3-4-0-X. Study of jigs and fixtures, mass production techniques, product design, etc.

320—**Environmental Controls.** 3-2-4-X. Theory and techniques pertaining to environmental control within closed spaces. Variables considered are heat, work energy, fluid flow, and heat transfer.

321—**Tool and Fixture Design.** 3-2-4-X. Emphasizes design and fabrication of specialized production tools, jigs, gages, and fixtures with emphasis on dimensional control as related to production machinery.

322—**Mechanical Power Transmissions.** 3-2-4-X. Design and selection of mechanical elements used in power transmission of industrial machines; topics include shafts, pulleys, gear trains, bearings, clutches, and brakes.

323—**Fluid Mechanics.** 3-2-4-x. Fluid statics and application of fluid mechanics principles to analysis and design of fluid systems; includes friction factor, boundary layer theory, laminar flow concepts.

330—**Air Conditioning Design I.** 3-2-4-X. Prerequisite: Basic A/C principles and concepts as applied to systems design. Emphasis will be directed towards residential and small commercial systems.

331—**Air Conditioning Design II.** 3-2-4-X. Prerequisite MET 330. Continuation of concepts and principles of air conditioning design.

332—**Air Conditioning Design III.** 3-2-4-X. Prerequisite MET 331. An advanced course in air conditioning systems design.

361—**Kinematics.** 3-2-4-X. Study of statics and mechanics of materials, friction, inertia, vectors, etc., as related to machines and mechanisms.

362—**Machine Design.** 3-2-4-X. Prerequisite: MET 361. Continuation of 361. Study of kinetics, eccentric loadings, energy impulse, and periodic motions in mechanical design.

410—**Production Materials.** 3-2-4-X. Prerequisites: PSC 330, ACT 376. Study of the properties of materials for cutting, drilling, forming, and heat treating operations.

411—**Industrial Testing.** 3-2-4-X. Prerequisite ACT 376. Destructive and nondestructive testing of materials and structures.

441—**Mechanical Energy Systems.** 3-4-0-X. Prerequisite: MET 324. Study of heat energy theory, fossil fuel steam generators, internal combustion engines and gas turbines.

MEDICAL TECHNOLOGY (MTC-354)

101—**Introduction to Medical Technology.** 1-2-0-W,Su. An introduction for freshmen and transfer students to the aims, objectives, and requirements for a career in medical technology.

302—**Clinical Bacteriology I.** 3-2-4-S,F. Prerequisites: MIC 101, MIC 411 and MIC 412 and permission of instructor. Emphasis on laboratory organization in the area of specimen handling, quality control, laboratory safety, budgeting and supplies.

306—**Fundamentals of Hematology.** 3-2-3-S,F. Prerequisites: Medical Technology majors or permission of instructor. An introduction to the study of blood and blood forming organs.

309—**Clinical Chemistry I** 3-1-6-W,Su. Prerequisites: Medical Technology majors or permission of instructor. An introduction to the basic principles of clinical chemistry.

400—**Orientation and Ethics.** 2-0-F,S. An introductory period designed to acquaint the student with professional ethics pertaining to the laboratory as well as his role in the field of health services.

401—**Urinalysis.** 1-0-0-**W,Su.** Analysis of the physical, chemical, and microscopic examination of urine with emphasis on understanding the kidney function in the diseased state.

402—**Clinical Bacteriology.** 4-0-0-**W,Su.** Laboratory methods of isolation, identification, and antimicrobial sensitivity testing of pathogenic bacteria in the relation to disease.

403—**Clinical Mycology.** 1-0-0-**W,Su.** The study of pathogenic fungi. Emphasis is placed on laboratory methods of isolation and identification.

404—**Clinical Virology.** 1-0-0-**W,Su.** The study of pathogenic viruses. Emphasis is placed on laboratory methods of isolation and identification of these etiologic agents of disease.

405—**Clinical Parasitology I.** 1-0-0-**W,Su.** A lecture and laboratory course on the classification and identification of parasites of pathologic importance to man.

406—**Hematology I.** 6-0-0-**W,Su.** The study of blood cells and their abnormalities with emphasis on procedures of laboratory examination.

407—**Clinical Serology I.** 1-0-0-**F,S.** An introduction to serologic testing, theory, and practical experience involving antigen-antibody reactions in relation to disease in man.

408—**Blood Bank I.** 3-0-0-**F,S.** The theory and techniques of processing blood for transfusion purposes.

409—**Clinical Chemistry II.** 4-0-0-**F,S.** The qualitative and quantitative chemical analysis of blood, urine, cerebrospinal fluid, and other body fluids.

410—**Clinical Isotope Methodology**. 1-0-0-**F,S.** An introduction to the handling and use of radioactive materials as they are used in the clinical laboratory.

411—**Cytogenetics.** 1-0-0-**F,S.** Karyotyping, dermatoglyphic patterns, and other techniques used in medical cytogenetics.

412—**Introduction to Pathology.** 1-0-0-**F,S.** Introduction to the physical and chemical alterations which take place in the human body in the diseased state.

451—**Blood Collection and Urinalysis.** 2-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

452—**Clinical Microbiology.** 4-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

455—**Clinical Parasitology II.** 2-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

456—**Hematology II.** 5-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

457—**Clinical Serology II.** 2-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

458—**Blood Bank II.** 4-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

459—**Clinical Chemistry III.** 7-0-0-**Q.** Clinical training at one of the affiliated hospital laboratories.

492—**Special Problems in Medical Technology I, II, III, IV.** 2-8 hrs. arr. **Q.** Assignment of a specific clinical problem in medical technology under faculty direction.

MICROBIOLOGY (MIC-310)

101—**General Microbiology.** 3-2-4-**Q.** Introduction to basic characteristics of microorganisms.

261—**Microorganisms in Foods.** 3-4-0-**F,Su.** Microbiology of domestic and commercially prepared foods.

301—**Advanced General Microbiology.** 3-2-4-**Q.** Prerequisites: MIC 101 and CHE 101. Current concepts in microbiology. Laboratory devoted to advanced techniques.

401—**Microorganisms in Health and Disease I.** 3-4-0-**F,W,Su.** Course not designed for majors in the College of Science and Technology. A comprehensive survey of the bacteria, viruses, rickettsiae, chlamydiae, yeasts, molds, protozoa, and other human parasites.

402—**Microorganisms in Health and Disease II.** 3-4-0-**W,S,Su.** Prerequisite: MIC 401. Course not designed for majors in the College of Science and Technology. A study of immunology, serology, and pathogenic microorganisms.

408—**Advanced Microbiological Techniques.** 3-2-4-**X.** Prerequisites: MIC 301 and CHE 353. Special emphasis is placed on microbiological techniques beyond the scope of MIC 301.

411—**Pathogenic Microbiology.** 3-2-4-**F,Su.** Prerequisite: MIC 301. Schemes for isolation and identification of major groups of disease producing microorganisms.

412—**Advanced Pathogenic Microbiology.** 3-2-4-**W,Su.** Prerequisite: MIC 411. Continuation of MIC 411 on an advanced level; schemes for isolation and identification of major groups of disease producing organisms.

421—**Virology and Tissue Culture.** 3-2-4-**X.** Prerequisites: MIC 301. Survey of viruses and viral classification, including viral diseases, involving tissue culture techniques as applied to virology.

422—**Viral Pathogenesis and Diagnosis.** 3-2-4-**X.** Host-virus interaction from a pathological and immunological viewpoint with isolation and laboratory characterization.

441—**Immunology and Serology.** 3-2-4-**S.** Prerequisite: MIC 412. Studies of infection, resistance, types of immunity, hypersensitivity, and major techniques of diagnostic immunological reactions.

455—**Microbial Physiology.** 3-4-0-**X.** Prerequisite: MIC 301. Studies of the microorganisms response to the environment by means of adaptive control mechanisms.

461—**Food Microbiology.** 3-2-4-**X.** Prerequisite: MIC 301. Microorganisms affiliated with the preparation, spoilage, pathogenicity, and sanitation of foods and food products.

462—**Dairy Microbiology.** 3-2-4-**X.** Prerequisite: MIC 301. The preservation, fermentation, and spoilage of milk and dairy products.

471—**Microbiology of Water and Sewage.** 3-2-4-**X.** Prerequisites: MIC 301 and CHE 353. Control of pure water supply; sources and types of pollution and control of sewage disposal.

481—**Soil Microbiology.** 3-2-4-**X.** Prerequisites: MIC 301 and CHE 353. Study of soil microflora, emphasis on nitrogen-carbon cycle of environment.

492—**Microbiological Problems, I, II, II.** 2-6 hrs. arr. **X.** Given only by special arrangement. A course in special techniques designed for majors with a need for certain basic microbiological techniques as tools for future research.

MILITARY SCIENCE (MS-276)

Basic Military Science

111—**Fundamentals of Leadership and Management I.** 1-1-1-**F,X.** An introduction to individual weapons, rifle marksmanship, leadership, and the United States Defense Establishment.

114—**Fundamentals of Leadership and Management II.** 1-1-1-W,X. A study of the basic skills necessary for proficient land navigation. A one-day voluntary practical exercise is included.

Elective and Leadership Laboratory. 3- - S,X. An elective selected from University course offerings outside the Military Science Department which must be approved by the PMS and satisfy DA requirements for commissioning as outlined in Department of the Army Program of Instruction. The student will concurrently attend Leadership Laboratory during the quarter. Examples of electives which will satisfy this requirement are: CSS 100-Introduction to Computing; GHY 103-Principles of Global Geography; PS 101-American Government; CHE 101-General Chemistry; GLY 101-Physical Geology; SOC 101-Introduction to Sociology; MAT 120-Mathematics for the Arts and Humanities; CJ 200-Introduction to Criminal Justice.

211—**Fundamentals of Leadership and Management III.** 1-1-1-F,X. The fundamentals and techniques of leadership and small unit tactics. Command, control, and leadership aspects are emphasized.

214—**Fundamentals of Leadership and Management IV.** 1-1-1-W,X. The study of advanced skills in unit tactics, map reading, and the use of aerial photographs.

Elective and Leadership Laboratory. 3- - -S,X. An elective selected from University course offerings outside the Military Science Department which must be approved by the PMS and satisfy DA requirements for commissioning as outlined in Department of the Army Program of Instruction. The student will concurrently attend Leadership Laboratory during the quarter. Examples of electives which will satisfy this requirement are: FIN 320-Personal Finance; MGT 360-Fundamentals of Management; GHY 341-World Political Geography; HIS 300-World History Since 1945; HIS 342-United States Military History; ACC 201-Principles of Accounting; GHY 210-Principles of Cartography.

Advanced Military Science

301—**Basic Problems in Small Unit Leadership.** 3-3-1-F. Study of the functional approach to small unit leadership, branches of the Army, and internal defense and development aspects of a counter-insurgency.

302—**Small Unit Tactics and Communications.** 3-3-1-W. Study of the tactical employment concepts at small unit level and battalion communications procedures and equipment.

303—**Principles of Military Instruction.** 3-3-1-S. Course designed to familiarize the student with the principles of military instruction. A twenty (20) minute student exercise is included.

401—**Military Team I.** 3-3-1-F. A study of combat operations, military teams, impact of staff procedures on military operations, and role of the officer in logistical planning.

402—**Military Team II and Leadership and Management I.** 3-3-1-W. A continuation of MS 401. Introduction to management aspects of military justice and administration at the junior officer level.

403—**Leadership and Management II.** 3-3-1-S. Continuation of MS 402. Study of the military aspects of world affairs, counter-insurgency operations, and obligations and responsibilitier of an officer.

492—**Special Projects.** 1-3 hrs. arr. X.

MUSIC (MUS-675)

100—**Introduction of Music.** 3-4-1-F,Su. An introductory course in the fundamentals of music theory. Open to all University students. May not be applied toward a degree in music.

101—**Music Theory.** 3-4-1-**F,S.** Prerequisite: A knowledge of music notation. Scales, intervals, and part-writing, using triads, the dominant seventh chord, non-harmonic tones, modulation, dictation, and sight-singing.

102—**Music Theory.** 3-4-0-**W,S.** Prerequisite: MUS 101. A continuation of MUS 101.

131—**Survey of Music Literature.** 3-4-0-**Q.** An introductory course surveying the major areas of music history style periods.

201—**Advanced Music Theory.** 3-4-1-**F,S.** Prerequisites: MUS 101, 102. Part-writing, including secondary seventh chords, borrowed chords, altered chords, foreign modulation, dictation, and sightsinging.

202—**Advanced Music Theory.** 3-4-1-**F,W.** Prerequisites: MUS 101, 102, 201. A continuation of MUS 201.

231—**History of Music.** 2-2-0-**F.** Prerequisites: MUS 131 and MUS 101, 102. Music in Western civilization traced from its primitive sources to the present.

232—**History of Music.** 2-2-0-**W.** Prerequisites: MUS 131, 231 and MUS 101, 102. A continuation of MUS 231.

233—**History of Music.** 2-2-0-**S.** Prerequisites: MUS 131, 231, 232 and MUS 101, 102. A continuation of MUS 232.

241—**Diction.** 3-4-0-**S.** Prerequisite: Freshman Voice. The correct use and pronunciation of English, French, Italian, and German as applied to vocal literature.

301—**Twentieth Century Harmony.** 3-4-0-**Q.** Prerequisites: MUS 101, 102, 201, 202. An investigation into the various styles and harmonic elements of 20th Century music coupled with practical applications.

302—**Form and Analysis.** 3-4-0-**Q.** Prerequisites: MUS 201, 202. Music of various periods is analyzed formally, harmonically, and contrapuntally.

311—**Composition.** 2-2-0-**X.** Prerequisites: MUS 301, 302. Composition in the smaller forms. Contemporary and stylistic techniques. Steps in the preparation of music for publication are included.

321—**Counterpoint.** 2-2-0-**F.** Prerequisites: MUS 201, 202. Two, three, and four-voice contrapuntal writing in the style of Palestrina.

322—**Counterpoint.** 2-2-0-**W.** Prerequisites: MUS 201, 202. Two, three, and four-voice contrapuntal writing in the style of Bach.

351—**History of Church Music.** 3-4-0-**F.** History of Christian Church music, with emphasis on the use of literature.

360—**Stylistic Developments in Jazz.** 3-4-0-**W,** 1977. Study of the development of jazz idioms. Includes elements of jazz history leading to study of more complex idioms.

365—**The Enjoyment of Music.** 3-4-0-**Q.** A study of the basic elements of music necessary for intelligent listening and appreciation. This course may not be applied toward a Bachelor of Music or Bachelor of Music Education degree, or a music minor.

367—**Improvisation.** 1-1-1-**F.** Study and performance of jazz improvisation.

375—**Techniques of Scoring for Jazz Ensembles.** 2-2-0-**F.** Study in composing and arranging music for jazz ensembles.

401—**Instrumentation.** 3-4-0-**Q.** Prerequisites: MUS 201, 202. A study of the instruments of the band and orchestra. Scoring for small instrumental ensembles.

431—**History of Opera.** 3-4-0-**X.** The history of the musical theatre from Greek drama to the present. Open to non-music majors with consent of instructor.

432—**American Music.** 3-4-0-**Su.** A study of the development of music in North America. Open to non-music majors with consent of instructor.

433—**20th Century Music.** 3-4-0-**F,** 1977. Examination of musical trends since Debussy and Mahler. Open to non-music majors with consent of instructor.

434—**Ancient, Medieval, and Renaissance Music.** 3-4-0-**F.** A study of the rise of music in the ancient world, the beginning of western music, and of polyphony. Open to non-music majors with consent of instructor.

435—**Baroque Music.** 3-4-0-**W.** 1975. The development of musical styles and forms from Monteverdi through J. S. Bach. Open to non-music majors with the consent of instructor.

436—**18th Century Music.** 3-4-0-**S.** The development of classical styles and forms, emphasis on **style gallant, Empfindsamer Stil,** and the Viennese classicists. Open to non-music majors with consent of instructor.

437—**19th Century Music.** 3-4-0-**Su.** 3-4-0-**Su.** The development of musical romanticism, emphasis on the expression of classical forms and the appearance of new stylistic concepts. Open to non-music majors with consent of instructor.

440—**Vocal Literature.** 2-2-0-**X.** Required of all senior voice majors.

441—**Vocal Literature.** 2-2-0-**X.** A continuation of MUS 440.

442—**Piano Literature.** 2-2-0-**X.** Required of all senior piano majors.

443—**Piano Literature.** 2-2-0-**X.** A continuation of MUS 442.

444—**Organ Literature.** 2-2-0-**X.** Required of all organ majors.

445—**Organ Literature.** 2-2-2-**X.** A continuation of MUS 444.

446—**Instrumental Literature.** 2-2-0-**X.** Required of all senior instrumental majors.

447—**Instrumental Literature.** 2-2-0-**S,Su.** A continuation of MUS 446.

448—**Choral Literature.** 2-2-0-**X.** A survey of accompanied and unaccompanied choral music from Gregorian chant through Handel.

449—**Choral Literature.** 2-2-0-**X.** A continuation of MUS 448.

450—**Symphonic Literature.** 3-4-0-**X.** History and literature of the symphony orchestra from 1600 to the present. Open to non-music majors with consent of instructor.

451—**Chamber Music Literature.** 3-4-0-**X.** A survey of music for small instrumental ensembles. Open to non-music majors with consent of instructor.

455—**Arranging for the Marching Band.** 2-2-0-**X.** Designed to provide the beginning arranger with the essential techniques of scoring for the outdoor band.

456—**Choral Arranging.** 2-2-0-**X.** Basic concepts and techniques of scoring for voices, with emphasis on arranging rather than on original compositions for chorus.

459—**Church Music Colloquium.** 3-4-0-**X.** Philosophies of church music as well as the administration, liturgies, and related materials will be studied.

462—**Hymnology.** 3-4-0-**X.** History of the Christian hymn from its root to present-day form.

467—**Improvisation.** 1-1-1-**W.** A continuation of MUS 367.

468—**Improvisation.** 1-1-1-**S.** A continuation of MUS 467.

470—**Organization and Management of Jazz Ensembles.** 3-4-0-**S.**. 1977. Studies in general management of commercial and academically oriented jazz groups.

475—**Advanced Techniques of Scoring for Jazz Ensembles.** 2-2-0-**W.** A continuation of MUS 375.

476—**Advanced Techniques of Scoring for Jazz Ensembles.** 2-2-0-**S.** A continuation of MUS 475.

MUSIC—APPLIED AND ORGANIZATIONS (APM—670)

First Year

101-102-103—**Piano.** 1-2 hrs. arr.
111-112-113—**Organ.** 1-2 hrs. arr.
114-115-116—**Flute.** 1-2 hrs. arr.
117-118-119—**Oboe.** 1-2 hrs. arr.
120-121-122—**Clarinet.** 1-2 hrs. arr.
123-124-125—**Saxophone.** 1-2 hrs. arr.
126-127-128—**Bassoon.** 1-2 hrs. arr.
129-130-131—**Horn.** 1-2 hrs. arr.
132-133-134—**Trumpet.** 1-2 hrs. arr.
135-136-137—**Trombone.** 1-2 hrs. arr.
138-139-140—**Euphonium.** 1-2 hrs. arr.
141-142-143—**Tuba.** 1-2 hrs. arr.
144-145-146—**Violin.** 1-2 hrs. arr.
147-148-149—**Viola.** 1-2 hrs. arr.
150-151-152—**Cello.** 1-2 hrs. arr.
153-154-155—**String Bass.** 1-2 hrs. arr.
156-157-158—**Percussion.** 1-2 hrs. arr.
161-162-163—**Voice.** 1-2 hrs. arr.
164-165-166—**Harp.** 1-2 hrs. arr.
171-172-173—**Ensemble.** 1 hr. arr.
191-192-193—**Composition.** 1 hr. arr.
181—**Orchestra.** 1 hr. (May be taken three times)
182—**Band.** 1 hr. (May be taken three times)
183—**Chorus.** 1 hr. (May be taken three times)
184—**Jazz Lab Band.** 1 hr. (May be taken three times)

Second Year

201-202-203—**Piano.** 1-2 hrs. arr.
211-212-213—**Organ.** 1-2 hrs. arr.
214-215-216—**Flute.** 1-2 hrs. arr.
217-218-219—**Oboe.** 1-2 hrs. arr.
220-221-222—**Clarinet.** 1-2 hrs. arr.
223-224-225—**Saxophone.** 1-2 hrs. arr.
226-227-228—**Bassoon.** 1-2 hrs. arr.
229-230-231—**Horn.** 1-2 hrs. arr.
232-233-234—**Trumpet.** 1-2 hrs. arr.
235-236-237—**Trombone.** 1-2 hrs. arr.
238-239-240—**Euphonium.** 1-2 hrs. arr.
241-242-243—**Tuba.** 1-2 hrs. arr.
244-245-246—**Violin.** 1-2 hrs. arr.
247-248-249—**Viola.** 1-2 hrs. arr.
250-251-252—**Cello.** 1-2 hrs. arr.
253-254-255—**String Bass.** 1-2 hrs. arr.
256-257-258—**Percussion.** 1-2 hrs. arr.
261-262-263—**Voice.** 1-2 hrs. arr.
264-265-266—**Harp.** 1-2 hrs. arr.
271-272-273—**Ensemble.** 1 hr. arr.
291-292-293—**Composition.** 1 hr. arr.
281—**Orchestra.** 1 hr. (May be taken three times)
282—**Band.** 1 hr. (May be taken three times)
283—**Chorus.** 1 hr. (May be taken three times)
284—**Jazz Lab Band.** 1 hr. (May be taken three times)

Third Year

301-302-303—**Piano.** 1-2 hrs. arr.
311-312-313—**Organ.** 1-2 hrs. arr.
314-315-316—**Flute.** 1-2 hrs. arr.
317-318-319—**Oboe.** 1-2 hrs. arr.
320-321-322—**Clarinet.** 1-2 hrs. arr.
323-324-325—**Saxophone.** 1-2 hrs. arr.
326-327-328—**Bassoon.** 1-2 hrs. arr.
329-330-331—**Horn.** 1-2 hrs. arr.
332-333-334—**Trumpet.** 1-2 hrs. arr.
335-336-337—**Trombone.** 1-2 hrs. arr.
338-339-340—**Euphonium.** 1-2 hrs. arr.
341-342-343—**Tuba.** 1-2 hrs. arr.
344-345-346—**Violin.** 1-2 hrs. arr.
347-348-349—**Viola.** 1-2 hrs. arr.
350-351-352—**Cello.** 1-2 hrs. arr.
353-354-355—**String Bass.** 1-2 hrs. arr.
356-357-358—**Percussion.** 1-2 hrs. arr.
361-362-363—**Voice.** 1-2 hrs. arr.
364-365-366—**Harp.** 1-2 hrs. arr.
371-372-373—**Ensemble.** 1 hr. arr.
375-376-377—**Accompanying.** 1 hr. arr.
391-392-393—**Composition.** 1-2 hrs. arr.
370—**Recital.** 0-1 hr. arr.
381—**Orchestra.** 1 hr. (May be taken three times)
382—**Band.** 1 hr. (May be taken three times)
383—**Chorus.** 1 hr. (May be taken three times)
384—**Jazz Lab Band.** 1 hr. (May be taken three times)

Fourth Year

401-402-403—**Piano.** 1-2 hrs. arr.
411-412-413—**Organ.** 1-2 hrs. arr.
414-415-416—**Flute.** 1-2 hrs. arr.
417-418-419—**Oboe.** 1-2 hrs. arr.
420-421-422—**Clarinet.** 1-2 hrs. arr.
423-424-425—**Saxophone.** 1-2 hrs. arr.
426-427-428—**Bassoon.** 1-2 hrs. arr.
429-430-431—**Horn.** 1-2 hrs. arr.
432-433-434—**Trumpet.** 1-2 hrs. arr.
435-436-437—**Trombone.** 1-2 hrs. arr.
438-439-440—**Euphonium.** 1-2 hrs. arr.
441-442-443—**Tuba.** 1-2 hrs. arr.
444-445-446—**Violin.** 1-2 hrs. arr.
447-448-449—**Viola.** 1-2 hrs. arr.
450-451-452—**Cello.** 1-2 hrs. arr.
453-454-455—**String Bass.** 1-2 hrs. arr.
456-457-458—**Percussion.** 1-2 hrs. arr.
461-462-463—**Voice.** 1-2 hrs. arr.
464-465-466—**Harp.** 1-2 hrs. arr.
471-472-473—**Ensemble.** 1 hr. arr.
475-476-477—**Accompanying.** 1 hr. arr.
491-492-493-**Composition.** 1-2 hrs. arr.
470—**Recital.** 1-2 hrs. arr.
481—**Orchestra.** 1 hr. (May be taken three times)
482—**Band.** 1 hr. (May be taken three times)
483—**Chorus.** 1 hr. (May be taken three times)
484—**Jazz Lab Band.** 1 hr. (May be taken three times)

MUSIC EDUCATION (MED–680)

221–**String Class.** 1-1-0-**F,W,Su.** Practical class instruction on all strings. Problems of beginning students; material for public school classes.

222–**String Class.** 1-1-0-**W,S,Su.** A continuation of MED 221.

301–**Voice Class.** 2-2-0-**Q.** Designed to give the instrumental major a general knowledge of vocal and choral techniques.

311–**Elementary Music Methods.** 3-4-0-**F,W,S.** Music education programs for the elementary student. Emphasis is placed on the total curriculum.

312–**Secondary Music Methods.** 3-4-0-**W,S.** Prerequisite: MED 311. Consideration of the secondary music program. Special attention is given to the development of a balanced curriculum.

321–**String Methods.** 1-1-0-**F.** Instruction on all strings for students not following the curriculum in instrumental music education.

322–**Woodwind Methods.** 1-1-0-**W.** Instruction on clarinet, flute, oboe, bassoon for students not following the curriculum in instrumental music education.

323–**Brass Methods.** 1-1-0-**S.** Instruction on all brasses for students not following the curriculum in instrumental music education.

331–**Conducting.** 1-1-0-**F,Su.** Prerequisites: MUS 201, 202, or consent of instructor. Techniques of choral and instrumental conducting.

332–**Conducting.** 1-1-0-**W,Su.** A continuation of MED 331.

333–**Conducting.** 1-1-0-**S,Su.** A continuation of MED 332.

361–**Music for Elementary Teachers I.** 3-4-0-**Q.** Designed to provide students with a basic knowledge of notation, singing, and the use of the autoharp and piano. May not be applied to a Bachelor of Music or a Bachelor of Music Education degree.

362–**Music for Elementary Teachers II.** 3-4-0-**Q.** Prerequisite MED 361. Application of the fundamental skills of MED 361 in the selection of music materials and methods of presentation. May not be applied toward a Bachelor of Music or a Bachelor of Music Education degree.

382–**Recreational Music.** 3-4-0-**W.** Prerequisite: MED 361 or consent of instructor. Materials and techniques useful in developing recreational music programs including vocal and instrumental ensembles.

390–**Piano Workshop.** 2-2-0-**Su.** Designed to meet the needs of the piano teacher, including a survey of materials and modern teaching methods.

391–**Instrumental Workshop. W,Su.** Survey and analysis of problems relating to instrumental music education through lecture, performance, and discussion.

392–**Choral Workshop.** 2-2-0-**W,Su.** Examination, study, and analysis of choral techniques and procedures.

393–**Elementary Music Workshop.** 2-2-0-**Su.** Intensive examination of current problems, trends, and materials in elementary music education.

411–**Choral Methods and Curriculum Problems.** 3-3-0-**W,S,Su.** Organization and administration of choral activities in secondary schools.

412–**Instrumental Methods and Curriculum Problems.** 3-4-0-**W,S,Su.** Techniques of developing successful marching/concert bands and orchestras. Emphasis on current trends in music education.

421–**Woodwind Class.** 1-1-0-**F,W,Su.** Study of basic techniques in the pedagogy of all major woodwind instruments.

422–**Woodwind Class.** 1-1-0-**W,S,Su.** A continuation of MED 421.

424—**Instrumental Repair.** 3-4-0-**F,W,Su.**
Topic 1. Organ Design and Repair. **F.**
Topic 2. Piano Tuning. **W,Su.**
Topic 3. String and Wind Instrument Repair. **Su.**

425—**Brass Class.** 1-1-0-**F,W,Su.** Study of basic techniques in the pedagogy of all brass instruments.

426—**Brass Class.** 1-1-0-**W,S,Su.** A continuation of MED 425.

427—**Percussion Class.** 1-1-0-**F,W,Su.** Review of percussion texts, techniques, and pedagogy of snare drum, bass drum, timpani, cymbals, mallet, and keyboard instruments. Percussion majors may substitute a brass, string, or woodwind minor instrument for MED 427.

428—**Percussion Class.** 1-1-0-**W,S,Su.** A continuation of MED 427.

440—**Music Education in the Elementary Schools.** 3-3-0-**S.** Prerequisites: MED 311, 312. An in-depth course which examines current techniques and methods of music programs in upper and lower elementary grades.

450—**Vocal Pedagogy.** 2-2-0-**F.** Comparison of pedagogical concepts; study of vocal production problems and anatomy of the vocal tract.

451—**Vocal Pedagogy.** 2-2-0-**W.** A continuation of MED 450.

452—**Piano Pedagogy.** 2-2-0-**F.** Modern methods of teaching; lectures, observation of private and class lessons; teaching piano to adults.

453—**Piano Pedagogy.** 2-2-0-**W.** A continuation of MED 452.

454—**Organ Pedagogy.** 2-2-0-**F.** Required of all senior organ majors.

455—**Organ Pedagogy.** 2-2-0-**W.** A continuation of MED 454.

456—**String Pedagogy.** 2-2-0-**F.** Required of all senior string majors.

457—**String Pedagogy.** 2-2-0-**W.** A continuation of MED 456.

458—**Wind Pedagogy.** 2-2-0-**F.** Required of all senior wind majors.

459—**Wind Pedagogy.** 2-2-0-**W.** A continuation of MED 458.

490—**Piano Workshop.** 2-2-0-**Su.** A continuation of MED 390.

491—**Instrumental Workshop.** 2-2-0-**W,Su.** A continuation of MED 391.

492—**Choral Workshop.** 2-2-0-**W,Su.** A continuation of MED 392.

493—**Elementary Music Workshop.** 2-2-0-**Su.** A continuation of MED 393.

NURSING (NSG—070)

120—**Social Focus in Nursing.** 2-1-2-**F.** Introduction to concepts of therapeutic self-care, high level wellness and nursing as a social process.

121—**Socio-Cultural Processes in Nursing.** 2-1-2-**W.** Normal social and cultural self-care needs.

122—**Bio-Physio Processes in Nursing.** 2-1-2-**S.** Physical self-care needs and nursing skills.

150—**Nursing as a Bio-Physio-Socio-Cultural Process.** 6-3-6-**W,S,X.** Taken in lieu of NSG 120, 121, 122 if specified criteria are met.

301—**Nursing Process in the Health Continuum.** 3-1-6-**Q.** Patho-Physiological and psychosocial dimensions of designing and implementing systems of nursing assistance for individuals and their families.

302—**Introduction to Pathology of the Physiological Systems.** 2-2-0-**Q.** Emphasizes changes in body systems manifesting disturbed physiology.

303—**Systems of Nursing in Health Deviations.** 3-1-6-**Q.** Continuation of NSG 301.

305—**Nursing in the Promotion of Therapeutic Self-Care and High-Level Wellness.** 5-2-0-**Q.** Continuation of NSG 303.

306—**Introduction to Pharmacology.** 2-2-0-**Q.** Focuses on classification and administration of pharmacologic agents.

410—**Maternal-Child Nursing.** 6-3-0-**Q.** Designing and implementing complex systems of nursing assistance for expectant and early child-rearing family.

420—**Nursing in Illness-Wellness Continuum.** 6-2-12-**Q.** Designing and implementing complex systems of nursing assistance for physically ill persons and their families.

430—**Nursing to Promote Mental Health.** 3-1-6-**Q.** Designing and implementing complex systems of nursing assistance for persons and families with behavioral disorders.

440—**Community Health Nursing.** 3-1-6-**Q.** Designing and implementing complex systems of nursing assistance for families in the community.

442—**Public Health Science.** 2-2-0-**Q.**

450—**Role Transition in the Delivery of Nursing Systems.** 9-4-26-**Q.** (For generic students). 6-9 hrs arr. for R.N. students. Toward developing the professional nurse practitioner.

451—**Nursing Leadership and Management.** 3-3-0-**X.** Elective.

452—**Teaching in Nursing.** 3-3-0-**X.** Elective.

492—**Directed Study in Nursing.** 1-6 hrs. arr. **X.** On approval of department chairman.

OLLIPHANT HONORS CENTER (OHC—000)

BIO H101—**Biology.** 4-3-3-**F.** An introduction to biology.

BIO H102—**Biology.** 4-3-3-**W.** Continuation of BIO H101.

GEN H102—**Genetics.** 3-4-0-**X.** An introduction to human genetics.

HIS H102—**History.** 3-4-0-**S.** A survey of world civilization from 1648 to the present.

PS H101—**Political Science.** 3-4-0-**F.** A study of the American system of government.

ENG H101—**English.** 3-4-0-**F,W.** Studies in the nature of language and practice of its use.

ENG H200—**English.** 3-4-0-**X.** Drama.

ENG H201—**English.** 3-4-0-**X.** Fiction.

ENG H202—**English.** 3-4-0-**X.** Poetry.

SOC H101—**Sociology.** 3-4-0-**W.** An introduction to the study of Society, its institutions, and its problems.

PSY H110—**Psychology.** 3-4-0-**S.** An introduction to the scientific study of human behavior and experience.

111—**Honors Colloquium.** 3-4-0-**F.** Major civilizations of the western world.

112—**Honors Colloquium.** 3-4-0-**W.** Continuation of OHC 111.

113—**Honors Colloquium.** 3-4-0-**S.** Continuation of OHC 112.

201—**Honors Colloquium.** 1-0-0-**F,X.** Aspects of contemporary civilization.

202—**Honors Colloquium.** 1-0-0-W,X. Continuation of OHC 201.

210—**Man's Precarious Habitat.** 3-4-0-F. A study of physical, biological, social, political, and economic problems of the environment.

301—**Honors Colloquium.** 1-0-0-F,S. Introductory Research Methods for Honors Students.

302—**Honors Colloquium.** 1-0-0-W,X. Various topics of contemporary concern.

303—**Honors Colloquium.** 3-4-0-X. Major humanistic topics.

310—**Greek Culture and Literature in Translation.** 3-4-0-F. A survey of Greek culture and civilization from the time of Homer to the time of Plato.

311—**Honors Directed Study.** 3-0-0-Q. Independent study for Honors Students.

312—**Honors Directed Study.** 3-0-0-Q. Continuation of OHC 311.

313—**Latin Culture and Literature in Translation.** 3-4-0-S. A survey of Latin culture and civilization from the early beginnings of Rome to Constantine.

314—**History of Music.** 3-4-0-W. An investigation of major developments in music from classical Greece to the modern age.

315—**History of Art.** 3-4-0-S. An investigation of the visual arts in the history of western man.

316—**The Impact of Science on History.** 3-4-0-W. An investigation of the historical importance of science.

321—**Man, Science, and Society I.** 1-1-0-F. A presentation of major themes in humanities, science, and social science.

322—**Man, Science, and Society II.** 1-1-0-W. Continuation of OHC 321.

323—**Man, Science, and Society III.** 1-1-0-S. Continuation of OHC 322.

380—**History of Philosophy.** 3-4-0-W. An historically oriented introduction to the major schools of philosophy from the Pre-Socratics to Kant.

382—**Introduction to Anthropology.** 3-4-0-S. A comprehensive and indepth introduction to each of the major fields of anthropology.

401—**Honors Colloquium.** 1-0-0-F,X. Various topics of contemporary concern.

402—**Honors Colloquium.** 1-0-0-W,X. Continuation of OHC 401.

403—**Honors Colloquium.** 3-4-0-X. Aspects of civilization.

410—**Readings in Western Literature.** 3-4-0-F. Selected translations of masterpieces of early world literature from the classical to medieval periods.

411—**Honors Directed Study.** 3-0-0-Q. Independent study for Honors Students.

412—**Readings in Western Literature II.** 3-4-0-W. An analysis of selected European literature from 1500 to the present.

492—**Honors Research.** 3-0-0-Q. Senior Project.

PHILOSOPHY (PHI—284)

151—**Introduction to Philosophy.** 3-4-0-Q. An introduction to the methods and major themes of philosophy.

251—**Classical Philosophy.** 3-4-0-W. An outline survey of Greek philosophical thought.

252—**Modern Philosophy.** 3-4-0-S. Survey of 17th and 18th century European philosophy.

253—**Introduction to Logic.** 3-4-0-Q. An introduction to induction, deduction, fallacies, scientific method, and symbolic logic.

352—**Oriental Philosophy.** 3-4-0-**F.** A survey of the philosophical thought of India and the Far East.

353—**Study of a Major Philosopher.** 3-4-0-**W,S.** May be repeated for credit to a total of nine hours. A detailed examination of a selected philosopher (S).

354—**Theories of Knowledge.** 3-4-0-**F.** An examination of classical and contemporary theories in epistemology.

356—**Ethics.** 3-5-0-**W.** An examination of classical and contemporary moral theory.

358—**Philosophy of Law.** 3-4-0-**S.** An inquiry into theories of law.

372—**Philosophy of Religion.** 3-4-0-**W.** An examination of classical problems in philosophical theology.

420—**Metaphysics.** 3-4-0-**F.** Analysis of classical and contemporary problems in metaphysics.

450—**Existentialism and Phenomenology.** 3-4-0-**S.** An examination of the central themes in contemporary European existentialism and phenomenology.

451—**Political Philosophy.** 3-4-0-**S.** The major schools of political philosophy from classical to contemporary times.

456—**Philosophy of Science.** 3-4-0-**S.** Examination of the foundations of science and scientific explanation.

458—**Symbolic Logic.** 3-4-0-**F.** The basic theory and operations of the sentential calculus, quantification, and the logic of relations.

460—**Analytic Philosophy.** 3-4-0-**S.** An examination of the central themes in contemporary British-American analytic philosophy.

492—**Special Problems.** 3-4-0-**X.** A problem study to be approved by the department chairman.

PHYSICAL EDUCATION (PED—730

119—**Beginning Volleyball.** 1-2-0-**Q.**

130—**Four Wall Sports.** 1-2-0-**Q.**

131—**Fencing.** 1-2-0-**Q.**

132—**Beginning Badminton.** 1-2-0-**Q.**

133—**Beginning Archery.** 1-2-0-**Q.**

134—**Beginning Golf.** 1-2-0-**Q.**

135—**Beginning Yoga.** 1-2-0-**Q.**

140—**Bicycling.** 1-2-0-**Q.**

141—**Beginning Tennis.** 1-2-0-**Q.**

142—**Snow Skiing.** 1-2-0-**W.**

143—**Roller Dance Skating.** 1-2-0-**Q.**

146—**Developmental Skills.** 1-2-0-**F.** PED majors or minors only.

147—**Developmental Skills.** 1-2-0-**W.** PED majors or minors only.

148—**Developmental Skills.** 1-2-0-**S.** PED majors or minors only.

150—**Tumbling, Beam, and Floor Exercises.** 1-2-0-**Q.**

151—**Tumbling, Uneven Parallel Bars and Vaulting.** 1-2-0-**Q.**

152—**Men's Beginning Gymnastics Apparatus.** 1-2-0-**Q.**

153—**Beginning Trampoline** 1-2-0-**Q.**

160—**Beginning Swimming.** 1-2-0-**Q.**

163—**Aquatic Sports.** 1-2-0-**Q.**

170—**Sport Judo.** 1-2-0-**Q.**

181—**Beginning Social Dance.** 1-2-0-**Q.**

184—**Beginning Square Dance.** 1-2-0-**Q.**

185—**Beginning Folk, Contra, and Round Dances.** 1-2-0-**Q.**

188—**Beginning Modern Dance.** 1-2-0-**Q.**

218—**Officiating Techniques in Women's Sports.** 3-4-0-**W.**

220—**Introduction to Health and Physical Education.** 3-4-0-**F.** Survey of the areas of health and physical education.

222—**A Survey of the History and Philosophies of Physical Education.** 3-4-0-**W.**

250—**Women's Intermediate Gymnastics Apparatus.** 1-2-0-**Q.**

284—**Creative Rhythms for the Elementary School Child.** 3-4-0-**W.**

301—**Kinesiology.** 3-4-0-**Q.** Prerequisite: HTH 315. Analysis of movement based on a knowledge of anatomy and physiology as applied to the function of muscles in body mechanics.

303—**Evaluation in Health and Physical Education.** 3-4-0-**W,S.** Administration and interpretation of tests in health, physical fitness, and skills.

314—**Instructional Techniques in Team Sports.** 3-4-0-**F,S.**

320—**Preschool and Primary School Physical Education.** 3-4-0-**F,S.** An introduction to philosophy, objectives, methods and curriculum content.

321—**Elementary and Middle School Physical Education.** 3-4-0-**W,Su.** Philosophy, objectives, methods, and curriculum.

323—**Physical Education in the Secondary Schools.** 3-4-0-**F,S.** Developing personal skills in a variety of sports.

326—**Instructional Techniques in Individual and Dual Sports.** 3-4-0-**F,S.**

334—**Golf.** 1-2-0-**Q.**

341—**Tennis.** 1-2-0-**Q.**

350—**Techniques of Teaching Stunts, Tumbling and Apparatus.** 3-4-0-**W,Su.**

360—**Theory of Teaching Swimming and Diving.** 2-2-0-**Su.** Organization and administration of the community swimming program.

401—**Corrective, Adaptive, and Developmental Physical Education.** 3-4-0-**W,Su.** Recognition of, and corrective exercises for functional abnormalities.

402—**Physiology of Exercise.** 3-4-0-**Q.** Prerequisite: HTH 315. A study of the physiological changes which occur in the body during muscular activity.

403—**Fundamental Motor Patterns.** 3-4-0-**F,S.** An analysis of the fundamental motor patterns developed during early childhood.

404—**Motor Development.** 3-4-0-**F,S.** A study of the motor aspects of the total human growth and development process.

420—**Practicum in Physical Education.** 1-2-6-0-**Q.** arr. May be repeated six times. Experiences in the various phases of the physical education program.

421—**Sports Laboratory.** 2-2-0-**Su.**

422—**Sports Laboratory.** 2-2-0-**Su.**

424—**Seminar in Elementary Physical Education.** 3-4-0-**F,S.** Prerequisites: 320 or 321.

426—**Organization and Administration of Health and Physical Education.** 3-4-0-**F,S.** The theory and procedure necessary to the development and administration of a sound physical education program.

450—**Movement Experiences for Young Children.** 2-2-0-**W.**

490—**Physical Education and Recreation for the Handicapped** 3-4-0-**W,Su.**

PHYSICS (PHY—360)
(See also **SCIENCE**)

101—**General Physics.** 3-3-3-**F,Su.** Prerequisite: MAT 101. A traditional course in general college physics intended for liberal arts and pre-medical students.

102—**General Physics.** 3-3-3-**W,Su.** Prerequisite: PHY 101. A continuation of PHY 101.

103—**General Physics.** 3-3-3-**S,Su.** Prerequisite: PHY 102. A continuation of PHY 102.

105—**Applied Physics.** 4-3-3-**X.** Prerequisite: MAT 101. Basic concepts of mechanics, heat, and sound applying to industry and research.

106—**Applied Physics.** 4-3-3-**X.** Prerequisite: PHY 105. Basic concepts of light, electricity, and magnetism applying to industry and research.

201—**General Physics with Calculus.** 3-3-3-**F.** Corequisite: Calculus. A more rigorous course in general physics recommended for physics majors. This course is required of engineering students.

202—**General Physics with Calculus.** 3-3-3-**W.** Prerequisite: PHY 201. A continuation of PHY 201.

203—**General Physics with Calculus.** 3-3-3-**S.** Prerequisite: PHY 202. A continuation of PHY 202.

255—**Applied Fluid Mechanics.** 3-3-0-**X.** Prerequisite: Introductory Physics. The principles of fluid mechanics and the practical application of their principles in engineering and technology.

327—**Electronics.** 3-3-3-**X.** Prerequisite: PHY 103 or 203 or 106. Fundamentals of vacuum and semiconductor devices with applications to scientific instrumentation.

328—**Electronics.** 3-3-3-**X.** Prerequisite: PHY 327. A continuation of PHY 327.

331—**Thermodynamics.** 3-3-3-**X.** Prerequisite: PHY 103 or 203 or 106. Temperature, thermodynamic systems, law of thermodynamics, entropy, and the physics of very low temperatures.

332—**Thermodynamics.** 3-4-0-**X.** Prerequisite: PHY 331. A continuation of PHY 331.

341—**Geometrical Optics.** 3-3-3-**S.** Prerequisite: PHY 103 or 203 or 106. Rays, refractive and reflective surfaces, lens design, stops and optical instruments.

342—**Physical Optics.** 3-4-0-**X.** Prerequisites: PHY 341 and calculus. Huygen's Principle, interference, diffraction, polarization and electromagnetic theory of light.

350—**Mechanics.** 3-4-0-**F.** Prerequisites: PHY 103 or 203 and calculus. Mathematical treatment of the dynamics of particles and rigid bodies, wave motion and vibration.

351—**Mechanics.** 3-4-0-**W.** Prerequisite: PHY 350. A continuation of PHY 350.

361—**Physics of the Atom I.** 3-4-0-**F.** Prerequisite: PHY 103 or 203. Survey of atomic particles, radiation and x-rays, the hydrogen atom, theory of optical spectra.

362—**Physics of the Atom II.** 3-3-3-W. Prerequisite: PHY 361. Natural radioactivity, fundamental particles, nuclear fission, radioactive production of isotopes and new elements.

392—**Physics Special Problems.** 1-3 hrs. arr. Prerequisite: Permission. Theoretical and laboratory problems limited to junior and senior students.

421—**Electricity and Magnetism.** 3-4-0-X. Prerequisites: PHY 103 or 203 and calculus. Vector analysis, electrostatics, magnetostatics and electromagnetic fields.

422—**Electricity and Magnetism.** 3-4-0-X. Prerequisite: PHY 421. A continuation of PHY 421.

423—**Electrical Measurements Laboratory.** 1-0-3-X. Corequisite: PHY 421. Laboratory experiments in electricity and magnetism.

435—**Principles of Microwave Systems.** 3-4-0-X. Prerequisite: Permission. Introduction to microwave theory; basic design of microwave circuits and systems.

422—**The Physics of Waves.** 3-4-0-X. Prerequisite: Permission. A treatment of vibrations and waves in physical systems.

444—**Musical Acoustics.** 3-4-0-X. Prerequisite: Permission. Primarily for music majors. The acoustics of musical instruments. Architectural acoustics.

460—**Advanced Physics Laboratory.** 2-0-6-X. Prerequisite: Permission. Advanced experiments in modern physics.

461—**Modern Physics.** 3-4-0-F. Prerequisite: PHY 362 or equivalent. Relativity, quantum theory, spectroscopy, and atomic and nuclear structure.

462—**Modern Physics.** 3-4-0-W. Prerequisite: PHY 461. A continuation of PHY 461.

463—**Modern Physics.** 3-4-0-S. Prerequisite: PHY 462. A continuation of PHY 462.

464—**Fundamentals of Solid State Physics.** 3-4-0-X. Prerequisite: Permission. Study of solids as electromagnetic wave media.

465—**Nuclear Physics.** 3-4-0-X. Prerequisite: Permission. Nuclear binding forces, chain reactions, nuclear reactors and radiation shielding.

466—**High Vacuum Technique.** 3-4-0-F. Prerequisite: Permission. Design of vacuum instruments. Study of mechanical, diffusion, ion, sorption, and getter pumps.

467—**Analysis by Mass Spectrometry.** 3-4-0-W. Prerequisite: Permission. Interpretation of mass spectra. Sample introduction and mass analysis.

477—**Meteorology.** 3-4-0-X. Prerequisites: PHY 103, CHE 103, or equivalent. General circulation, vertical structure, radiation heating and cooling.

485—**History and Literature of Physics.** 3-4-0-X. Prerequisite: PHY 103 or equivalent. A survey of physics from the ancients to Einstein.

499—**Undergraduate Research.** 1-6 hrs. arr. Q. Prerequisite: Permission. An introduction to the methods of physical research.

POLITICAL SCIENCE (PS—280)

101—**American Government.** 3-4-0-Q.

220—**Introduction to Political Science.** 3-4-0-F. A basic survey of the general field of study of political science to prepare students for subsequent study in a specific subject and field.

301—**State and Local Politics.** 3-4-0-Q.

302—**Current Problems in Government.** 3-4-0-X. A study of current problems before the national, state, and local governments at the time the course is taught.

303—**Race and Politics in the United States.** 3-4-0-X. The course will stress the role of Afro-Americans in the American political system.

320—**Introduction to Political Theory.** 3-4-0-X. A survey of principal political ideologies in the world today.

330—**United States Foreign Policy.** 3-4-0-Q.

331—**Introduction to International Politics.** 3-4-0-W,Su.

350—**Latin American Fundamentals.** 3-4-0-X. A broad orientation course on Middle and South America and the West Indies.

351—**Introduction to Comparative Government.** 3-4-0-S. A classification of selected political systems analyzed in the context of different economic and political cultures.

380—**Introduction to Law in American Society.** 3-4-0-S. A basic course designed to familiarize students with the court structure, the legal profession, and the role of law in American society.

401—**American Political Process.** 3-4-0-F. An analysis of the American political system on an advanced level.

402—**Urban Politics.** 3-4-0-F.

404—**The Legislative Process.** 3-4-0-S.

406—**American Political Parties and Pressure Groups.** 3-4-0-W,S,Su.

407—**Mississippi Government.** 3-4-0-W,Su.

408—**The Presidency and Congress.** 3-4-0-W. A study of the interplay of roles and functions, powers and pressures among the President, the Bureaucracy, and the Congress.

409—**Southern Politics.** 3-4-0-S. An examination of the politics and political culture of the southern states.

420—**Political Theory to Locke.** 3-4-0-F.

421—**Political Theory Locke to Present.** 3-4-0-S.

425—**American Political Theory.** 3-4-0-W,Su.

431—**International Organization.** 3-4-0-X.

432—**Foreign Policies of the Major Powers.** 3-4-0-S. An intensive analysis of the pattern of politics resulting from the formation of the two major power blocs and lesser blocs.

434—**Inter-American Politics.** 3-4-0-W. A study of hemisphere relations, with emphasis on the United States and Latin America, bilaterally and multilaterally.

435—**Soviet Foreign Policy.** 3-4-0-F.

450—**Governments and Politics of Western Europe.** 3-4-0-S.

451—**Soviet Government and Politics.** 3-4-0-W.

452—**British Government and Politics.** 3-4-0-F,Su.

453—**Middle Eastern Governments and Politics.** 3-4-0-W.

454—**Far Eastern Governments and Politics.** 3-4-0-S.

455—**Tropical African Governments and Politics.** 3-4-0-X.

456—**Latin American Governments and Politics.** 3-4-0-F,Su.

458—**Latin American Political and Economic Development.** 3-4-0-X.

470—**Public Administration.** 3-4-0-F,W.

471—**Public Personnel Administration.** 3-4-0-F.

472—**Organization and Management.** 3-4-0-S.

473—**Policy Formulation.** 3-4-0-S.

480—**United States Constitutional Law.** 3-4-0-Q.

481—**The Judicial Process.** 3-4-0-F,S,Su.

482—**Comparative Judicial Politics.** 3-4-0-S. Prerequisite: PS 480 or PS 481 or consent of instructor.

483—**Legal Research.** 3-4-0-X. A survey of primary and secondary legal sources including reports, digests, statutes, citators, and other basic materials used in legal research.

485—**International Law.** 3-4-0-W.

492—**Special Problems.** 1-3 hrs. arr. Q.

POLYMER SCIENCE (PSC–370)

191—**The Polymer Industry I, II, III.** 1-1-1-F,W,S. 1 hr. each for a maximum of 3 hrs. credit. An introduction to the history, recent developments, applications, and processing of polymers.

291.—**The Polymer Industry IV, V, VI.** 1-1-1-F,W,S. 1 hr. each for a maximum of 3 hrs. credit. An introduction to the properties of major commercial polymers, raw material sources, and the organization of the polymer industry.

301.—**Organic Polymer Chemistry I.** 3-3-3-F. Systematic study of the nature and properties of polymers with the major emphasis centered on those polymers synthesised by step polymerization.

302—**Organic Polymer Chemistry II.** 3-3-3-W. A continued study of polymer formation techniques, kinetics, and properties with particular emphasis on addition polymerization.

303—**Polymer Preparation and Characterization.** 4-3-6-S. A study of copolymerization, stereoregular polymerization, and other methods of synthesising polymers with unique chemical and physical properties.

310—**Technical and Scientific Communication.** 1-1-0-X. Training in the preparation of written and oral reports for specific scientific and technical problems.

330—**Structure of Materials.** 3-4-0-X. An introduction to the physical character of materials emphasizing the relationship of structure to fundamental composition.

340—**Forensic Science I.** 3-3-3-X. An introductory study of the techniques employed in a forensic laboratory.

341—**Forensic Science II.** 3-3-3-X. A continuation of PSC 340.

350—**Polymeric Materials I.** 3-4-0-F. Introduction to materials science. Comparison of polymer structure and properties to non-polymeric materials.

351—**Polymeric Materials II.** 3-3-3-W. Introduction to polymer chemistry, physics, and technology.

352—**Polymeric Materials III.** 3-3-3-S. Introduction to the processing and handling of polymers for making consumer products. ASTM and quality control methods. Formulation.

360—**Polymer Rheology.** 3-3-3-F. Theory and practice.

361—**Polymer Processing I.** 3-3-3-W. Plastics extrusion technology and theory.

362—**Polymer Processing II.** 3-3-3-S. Technical planning for plastics production. Material selection for plastic products. Trends in the plastics industry.

401—**Physical Chemistry of Polymers I.** 3-4-0-F. Polymer structure, chain conformation, solution properties, thermodynamics, fractionation, and molecular weight measurement.

402—**Physical Chemistry of Polymers II.** 3-3-3-W. A continuation of PSC 401. Instrumental analysis of polymers, morphology, rheology, structure-property relationships.

403—**Physical Chemistry of Polymers III.** 3-3-3-S. A continuation of PSC 402. Kinetics of addition, condensation, copolymerization and polymer processing.

412—**Introduction to Macromolecules.** 3-4-0-X. An introduction to the chemistry and physics of natural and synthetic high polymers.

430—**Plastics, Ceramics, Composites.** 3-4-0-X. A comparative study of the physical property behavior of non-metallic materials in pure form and in combination with emphasis on application performance.

440—**Drug Identification.** 3-4-0-X. Lectures, demonstrations and discussions covering all aspects of drug identification, emphasizing those relating to law enforcement. Course not counted toward a polymer science degree.

460—**Physical Properties of Polymers I.** 3-3-3-X. Mechanical and electrical properties of polymers as viscoelastic materials emphasizing the effects of time and temperature at constant stress levels.

461—**Physical Properties of Polymers II.** 3-3-3-X. Mechanical and electrical properties of polymers as viscoelastic materials emphasizing the effects of time and temperature at variable stress levels.

463—**Senior Research in Plastics.** 3-1-9-X. Individual research projects in plastics, dealing with properties, processing products, and industry organization. Final report required.

470—**Surface Coatings I.** 3-3-3-F. Study of the physical and chemical properties of the pigments, binders, solvents and additives employed in surface coatings formulations.

471—**Surface Coatings II.** 3-3-3-W. Paint formulation, dispersion techniques, surface preparation, paint testing, novel surface coating, non-polluting application techniques, and surface coatings formulations analysis.

490—**Special Projects in Polymer Science.** 3-1-9-X. Seminar and individual research. Prospectus is prepared and research plan is executed with final status report required.

491—**Special Projects in Polymer Science.** 3-1-9-X. Seminar and individual research. Prospectus is prepared and research plan is executed with final status report required.

493—**Plastic Seminar.** 2-2-0-X. Informal discussion based on literature study conducted by the individual, of topics in, or related to, plastics technology.

PSYCHOLOGY (PSY—175)

110—**General Psychology.** 3-4-0-Q. Open to freshmen. An introduction to the scientific study of human behavior and experience.

231—**Mental Hygiene.** 3-4-0-W. Prerequisite: PSY 110. A course designed to promote understanding of the problems people face in our society, the diverse ways in which they respond to these problems.

251—**Applied Psychology.** 3-4-0-Q. Prerequisite: PSY 110. Application of psychological methods and principles to a number of occupational fields other than education.

310—**Advanced General Psychology.** 3-4-0-**Q.** An advanced course in general psychology covering in greater depth selected topics. Required of all psychology majors.

320—**Experimental Psychology.** 3-2-2-**Q.** Prerequisites: PSY 310 and 360. Introduction to experimental methodology and laboratory apparatus with application to various areas of psychology.

360—**Introduction to Statistics for the Behavioral Sciences.** 3-4-0-**Q.** Probability, central tendency, variability, and correlation. Hypothesis testing with Z, t, chi-square, and F.

375—**Developmental Psychology.** 3-4-0-**W,Su.** A study of the course of growth and development throughout the life span, with emphasis on principles of development. Students who take EPY 370 or 372 should not take this course.

418—**History and Systems of Psychology.** 3-4-0-**F,S.** Prerequisite: Permission of the instructor. Review of the history of psychology and intensive study of current systems of psychology. Primarily for senior psychology majors.

420—**Sensation and Perception.** 3-4-0-**W.** Prerequisite:PSY 320. A survey of sensory and perceptual processes with emphasis on the visual system.

422—**Psychology of Learning.** 3-4-0-**F,S.** Prerequisite:PSY 320. A study of the basic problems, theories, concepts, and research in the areas of human and animal learning.

424—**Animal Psychology.** 3-4-0-**X.** Prerequisite:PSY 320. An introduction to the study of animal behavior with emphasis on the comparison of psychological processes along the phylogenetic scale.

426—**Physiological Psychology.** 3-4-0-**F,S,Su.** Prerequisite: PSY 110. Relationships between physiological functions, especially those of the nervous system, and emotional behavior, motivation and learning.

432—**Introduction to Behavior Modification.** 3-4-0-**X.** Prerequisites: Good background and permission of instructor. Principles and techniques of behavior modification applied to normal and deviant behavior across environmental settings.

436—**Abnormal Psychology.** 3-4-0-**Q.** Prerequisites: Good background in psychology and permission of the instructor. Study of the major psychoneuroses, and mental deficiency; field trips, and demonstration clinics.

450—**Social Psychology.** 3-4-0-**W.** Prerequisite: PSY 110. Study of social influences on personality development and perceptual-cognitive processes and social motivation.

451—**Industrial Psychology.**3-4-0-**F,S.** Prerequisite: PSY 110. (PSY 360 recommended.) Applications of psychological principles and methods to problems of industry.

455—**Psychology of Personality.** 3-4-0-**F,W,Su.** Prerequisites: PSY 110 and permission of the instructor. Different theoretical approaches to the development of the mature personality.

462—**Psychological Measurement.** 3-4-0-**W,Su.** Prerequisites: PSY 110 and 360. Theory, problems and techniques of psychological measurement. Group tests of ability, aptitude, interests, and personality are emphasized.

492—**Special Problems in Psychology.** 1-6 hrs. arr. Prerequisites: PSY 320 and consent of instructor.

495—**Field Experience in Psychology.** 1-3 hrs. arr. Prerequisites: Twenty-four hours of psychology and permission of the instructor. Opportunity for the student to observe and participate under supervision in the activities of one or several agencies providing psychological services.

498—**Senior Thesis.** 3 hrs. arr. Prerequisite: Permission of department chairman and instructor.

PUBLIC ADDRESS (PA–216)

100–**Human Communication.** 3-0-0-**Q.**

111–**Oral Communication.** 3-0-0-**Q.**

112–**Argumentation and Debate.** 3-0-0-**F,** alternate years.

210–**Voice and Diction.** 3-0-0-**Q.**

310–**Forensics.** 1-0-0-**Q.** May be repeated for three hours credit.

311–**Persuasion.** 3-0-0-**W.**

312–**Interviewing Principles and Applications.** 3-4-2-**S.**

315–**Speech Composition.** 3-0-0-**W.** Prerequisite: Consent of instructor.

324–**Phonemics.** 3-0-0-**S,** alternate years. Prerequisite: PA 210 or SHS 201.

330–**Discussion and Group Leadership.** 3-0-0-**Q.**

400–**Symbolic Function in Persuasion.** 3-0-0-**S,** alternate years. Prerequisite: Consent of instructor.

403–**Political Campaign Rhetoric.** 3-0-0-**F,** of election years.

410–**Business and Industrial Communication.** 3-4-0-**F.**

417–**Practicum in Major Field.** 3-4-0-**X.** May be repeated twice.

492–**Special Problems.** 1-3 hours. arr. **X.**

RADIO-TELEVISION-FILM (RTF–220)

200–**Survey of Mass Communication.** 3-4-0-**X,F.**

270–**Film History and Criticism (1895-1945).** 3-4-0-**F.**

271–**Introduction to Film Production.** 3-4-0-**Q.**

302–**Broadcast Journalism.** 3-4-0-**Su.** Prerequisite: JOU 102 and completion of English requirements in core corriculum.

303–**Internship in Radio, Television, and Film.** 3-9 hrs., arr. **X.** Prerequisite: Consent of instructor.

310–**Radio Laboratory.** 1-1-4-**F,Su.**

311–**Radio Production.** 3-4-4-**F,Su.**

320–**Announcing.** 2-3-1-**S.** Prerequisite: RTF 311.

330–**Broadcast Advertising.** 3-4-0-**W,Su.**

360–**Broadcast Rules and Regulations.** 3-4-0-**S.**

370–**Contemporary Cinema (History and Criticism 1945 to Present).** 3-4-0-**W.**

371–**Basic Cinematography.** 3-4-0-**W,S.** Prerequisite: RTF 271.

375–**Film Editing.** 3-4-0-**F.** Prerequisite: RFT 371 or consent of instructor.

377–**Film Production Workshop.** 2-2-2-**F.**

407–**Theories of Mass Communications.** 3-4-0-**S.**

416–**Radio Station Management.** 3-4-0-**S.**

417–**Radio Production Workshop.** 2-2-2-**F,W.** Prerequisite: RTF 311.

418–**Practicum in Major Field.** 3-4-0-**Q.** Prerequisite: Consent of instructor.

425–**Audience Analysis.** 3-4-0-**S.**

431—**Advertising Management and Sales.** 3-4-0-S. Prerequisite: RTF 330.

440—**Television Production.** 3-4-1-F,S. Prerequisite: RTF 311.

477—**Television Production Workshop.** 2-2-2-F,W. Prerequisite: RTF 440.

460—**Issues in Broadcasting.** 3-4-0-W,Su.

471—**Advanced Cinematography.** 3-4-0-S. Prerequisite: RTF 371 and consent of instructor.

472—**Writing for Television and Film.** 3-4-0-S.

474—**Techniques in Film Acting and Directing.** 3-1-3-S.

477—**Advanced Film Production Workshop.** 2-2-2-S. Prerequisite: Consent of instructor.

478—**Seminar in Film.** 3-4-0-W.

492—**Special Problems in Radio, Television and Film.** 1-3 hrs. arr. X. Prerequisite: Consent of instructor.

REAL ESTATE AND INSURANCE (REI—617)

325—**General Insurance.** 3-4-0-F,W,S. Nature of risk, its measurement, and the insurance mechanism as a device for handling risk with reference to the principal types of coverage.

330—**Real Estate Principles.** 3-4-0-F,W,S. An introduction to the field of real estate covering principles of law, valuation, management, financing, and brokerage of real estate.

425—**Life Insurance.** 3-4-0-F,Su. Prerequisite: REI 325. Types of policies and their uses; contract provisions; actuarial and legal aspects; settlement options and programming.

426—**Introduction to Actuarial Science.** 3-4-0-S. Prerequisite: REI 425 or consent of instructor. Compound interest theory, its application, and basic actuarial techniques of premium and reserve determination for life insurance and annuities.

430—**Real Estate Law.** 3-4-0-S. Prerequisite: GBA 295. Designed to give the student a general background in the law of real property and the law of real estate brokerage.

432—**Real Estate Finance.** 3-4-0-W. Prerequisite: REI 330. A study of the sources of real estate funds and the development of analytical techniques for investment decision making.

434—**Real Property Valuation.** 3-4-0-F. Prerequisite: REI 330. Political, social, and economic forces which operate simultaneously to create value. Quantitative methods of estimation market value are developed.

436—**Property Management.** 3-4-0-S. Prerequisite: REI 330. The economics of location, finance, marketing, and law as it relates to property management and amplified through case study.

445—**Property and Liability Insurance.** 3-4-0-W,Su. Prerequisite: REI 325. Fire insurance, consequential loss contracts, crime insurance, automobile coverages, general liability and workmen's compensation insurance.

450—**Health Insurance.** 3-4-0-S. Prerequisite: REI 325. Disability risk with its economic consequences and the various health insurance coverages available to meet this risk.

RECREATION (REC—735)

Service Activity Courses—The following are activity courses offered on a grade or pass-fail basis and REC 180 through 187 will fulfill the PED University requirements.

180—**Skeet and Trap Shooting.** 1-1-0-**F.**

181—**Marksmanship.** 1-1-0-**W.**

182—**Marksmanship Instructors Course.** Prerequisite: REC 181. 1-1-0-**X.**

183—**Pioneering.** 1-1-0-**S,F.**

184—**Canoeing.** 1-1-0-**S,F.**

185—**Family Camping and Campcraft.** 1-1-0-**W.**

186—**Freshwater Fishing.** 1-1-0-**F,S.**

187—**Saltwater Fishing.** 1-1-0-**S.**

188—**Hobbycraft.** 1-1-0-**W.**

189—**Naturecraft.** 1-1-0-**W.**

Career Courses—The following are career courses offered to meet requirements for a major in recreation leading to a Bachelor of Science degree.

200—**Man's Search for Leisure.** 3-4-0-**F,S.** A study of the evolution of leisure and leisure service programs from the Classical Age of Greece to the present.

203—**The Literature of Recreation.** 3-4-0-**F,S.** A reading course designed to introduce recreation majors to the various areas of specialization.

210—**Practium in Recreation I.** 1-2-0-**Q.** Initial field experience in area of specialization taken in the first two quarters of work.

211—**Practicum in Recreation II.** 1-2-0-**Q.** Observational experience in areas of specialization.

212—**Practicum in Recreation III.** 1-2-0-**Q.** Practical field experience as aide in area of specialization.

322—**Theory of Recreation Programming.** 3-4-0-**W,Su.** A study of the procedures and methods involved in planning and organizing a comprehensive program of recreational activities.

323—**Theory of Recreation Leadership.** 3-4-0-**F,S.** A study of the methods, techniques, and materials for directing individuals in group recreational activities.

341—**Camper Counseling, Administration, and Operation.** 3-4-0-**S.** A study of the objectives, activities, methods, and administrative and operational policies of organized camps.

342—**Outdoor Recreation.** 3-4-0-**W,Su.** A study of the recreational use of outdoors, with emphasis on education emerging trends problems, and opportunities associated with outdoor resources.

402—**Seminar in Recreation.** 1-1-0-**W,Su.** A seminar course designed to examine pertinent issues and current practices in recreation.

403—**Field Work in Recreation.** 9-0-0-**Q.** Each recreation major is assigned to a recreation-related agency and must work for a full quarter under the direct supervision of a professional recreator.

413—**Organization and Administration of Public Recreation.** 3-4-0-**F,S.** A course designed to study the organization and administration of public recreation agencies and their policies.

415—**Business Procedures for Parks and Recreation.** 3-4-0-**W,Su.** A study of specific business procedures and administrative policies and forms related to recreation-related agencies.

417—**Park Management and Operation.** 3-4-0-**F.** A study of the operational techniques and managerial principles necessary for the efficient administration of parks and outdoor facilities.

422—**Youth Service Programs.** 3-4-0-**F.** A study of the responsibilities, relationships, organization, administration, and activities of youth agencies such as Boy Scouts, etc.

424—**Community Playgrounds Programs and Operation.** 3-4-0-**W,Su.** A study of the administration, programs, and operation of playgrounds and community centers.

426—**Community-School Recreation.** 3-4-0-**S.** A comprehensive over-view of community recreation with particular emphasis on the inter-relationships and involvement of the public schools.

432—**Environmental Aspects of Recreation.** 3-4-0-**W.** A comprehensive study of the inter-relationships between recreation and available resourses.

434—**Park Development and Design.** 3-4-0-**S.** A study of basic application of design and planning concepts to outdoor recreation areas and facilities.

436—**Park and Recreation Planning.** 3-4-0-**W,Su.** The fundamental principles and methodologies necessary for dealing with proper indentification, allocation, and use of resources in recreational planning.

441—**Resources Management and Policy.** 3-4-0-**W.** The recreational techniques, procedures, and policies affecting management of natural resources. Emphasis given to proper land utilization, environmental protection, and user satisfaction.

447—**Interpretation of Cultural and Natural Resources.** 3-4-0-**S.** The interpretive process as applied to natural and cultural resources, with emphasis on educational/recreational aspects.

451—**Therapeutic Recreation Programming.** 3-4-0-**F,W.** A comprehensive study of the organization, programming, and special conduct of recreational programs and activities in institutions.

452—**Gerontology and Recreation for Later Years.** 3-4-0-**W,Su.** A study of the aging process and the special recreational needs, problems, opportunities, and activities of older people.

490—**Physical Education for the Handicapped.** 3-4-0-**X.** A course to acquaint individuals with theoretical aspects and practical applications of physical education and recreation for the handicapped.

491—**Recreation Education for Teacher.** 3-4-0-**X.** To introduce programs and benefits of recreation and leisure for the motivation of leaders who are serving in educating individuals of all ages.

494—**Field Problems.** 1-6 hrs. arr. Prerequisite: Permission of department chairman. Practical experiences dealing with problem situtations in the field and related institutional settings.

RELIGION (REL—288)

ANT 412—**Mythology and Folklore**—may also be offered for credit as a religion course.

ANT 316—**Biblical Archeology**—may also be offered for credit as a religion course.

131—**Introduction to Religion.** 3-4-0-**Q.** The study of religion as an aspect of human culture with attention to both Christian and non-Christian religions.

333—**History of the Old Teatament.** 3-4-0-**F.** A study of Jewish history and thought as presented in Jewish scripture and related texts.

335—**The Synoptic Tradition.** 3-4-0-**W.** A study of the teaching of Jesus as presented in the first three gospels.

431—**Religion in the Rise of American Culture.** 3-4-0-**F.** A study of the origin and development of the major religious groups in the United States from colonial times to the present.

432—**History of the Christian Church I.** 3-4-0-**W.** A study of the history of the church from the apostolic period through the Renaissance.

433—**History of the Christian Church II.** 3-4-0-**S.** A study of the history of the church from the Reformation to the modern era.

434—**Primitive Religion.** 3-4-0-**S.** Beliefs and ritual in primitive society. Relationship between magic and early religion. Animism, animatism, ghost-worship, and cults of death.

435—**Religious Literature and Thought of the Near East.** 3-4-0-**S.** A survey of Judaism, Islam, and Zoroastrianism.

492—**Special Problems.** 1-3 hrs. arr. **X.**

SCIENCE (SCI—394)

422—**Geophysical Well-Logging.** 3-2-4-**F.** Application of well-logging techniques to petroleum exploration, groundwater investigations, and soil studies.

426—**Advanced Geophysics.** 3-3-1-**S.** Prerequisites: PHY 103 or 203. Corequisite: MAT 277. A development of the physical principles governing gravity, electricity and magnetism, and seismic wave propogation.

SCIENCE EDUCATION (SCE—380)

432—**Science for Elementary Teachers.** 3-4-0-**Q.** Prerequisites: FS 131, 132, 133, 134, or 12 semester hours of science. Designed to provide experience in presenting scientific principles to the elementary school child through the use of a variety of materials and instructional methods.

441—**Workshop on Methods of Teaching the Metric System.** 3-4-0-**X.** Lectures and exercises in measurements using the International System of Units.

453—**Earth and Environmental Sciences for Intermediate School Teachers.** 3-4-0-**X.** Prerequisite: Earth and environmental science background or permission of the instructor. A course designed to familiarize teachers with the materials, methods, and techniques developed by national curriculum projects.

454—**Biological Sciences for Intermediate School Teachers.** 3-4-0-**F.** An examination of subject matter, techniques, and methods for teaching the life sciences in a locally structured, student-oriented classroom.

455—**Physical Science for Intermediate School Teachers.** 3-4-0-**W.** An examination of the subject matter, techniques, and methods for teaching the various modern physical sciences.

470—**BSCS Biology for Secondary Teachers.** 3-4-0-**S.** Prerequisite: Permission of instructor. An examination of the techniques, and methods for teaching biology in secondary schools as proposed by the Biological Sciences Curriculum Study.

471—**CHEM Chemistry for Secondary Teachers.** 3-4-0-**S.** Prerequisite: Permission of instructor. Designed to familiarize teachers with the materials, methods, and techniques of teaching chemistry developed by the CHEM Study Committee.

472—**Physics for Secondary Teachers.** 3-4-0-**X.** Prerequisite: Permission of instructor. A course to familiarize physics teachers with content, methods, materials, and techniques of teaching physics.

492—**Special Problems.** 1-3 hrs. arr. **X.** A problem study to be approved by the department chairman.

SECONDARY EDUCATION (CIS—120)

310—**Junior-Senior High School Reading Methods.** 3-4-0-**Q.** A course designed to familiarize secondary teachers with reading skills, methods, and materials. Emphasis is placed on content skills in subject matter areas.

313—**Principles of Teaching in High School.** 3-4-0-**Q.** Offered concurrently with student teaching, this general methods course emphasizes the goals of secondary education, motivation and direction of learning, and school organization.

451—**Methods in Business Education.** 3-4-0-**F,Su.** A study of business education trends and aims, teaching procedures, tests and measurements, special helps, and teaching materials.

452—**Methods in Art.** 3-4-0-**W.** Stresses the aims, objectives, and methods of art education in the elementary and secondary schools.

453—**Methods in Industrial Arts.** 3-4-0-**W,Su.** A course pertaining to the methods and materials in the teaching of industrial arts.

454—**Methods in English—Secondary.** 3-4-0-**Q.** A course concerning methods of teaching English in the junior and senior high schools.

455—**Methods in Foreign Languages.** 3-4-0-**W,Su.** A course in methods of teaching French, Spanish, and German in the secondary schools.

456—**Methods in Teaching Science—Secondary.** 3-4-0-**F,W,S.** A course designed to familiarize teachers with current trends, methods, and techniques of teaching science to secondary school students.

457—**Methods in Mathematics—Secondary.** 3-4-0-**F,S.** A course designed to give the student a knowledge of the objectives, curriculum problems, and organization and methods of teaching secondary school mathematics.

458—**Methods in Social Studies—Secondary.** 3-4-0-**Q.** A study of the principal methods of teaching, application of psychological principles to teaching, and methods of selecting content and materials.

459—**Methods in Speech.** 3-4-0-**F.** A general orientation to the teaching of speech, followed by individualized unit work in the special fields of speech.

462—**Methods and Principles in Health, Physical Education, and Recreation.** 3-4-0-**Q.** Emphasizes materials and techniques of teaching health, physical education, and recreation in grades 1-12 of public schools.

465—**Methods in Journalism.** 3-4-0-**W.** A course designed to prepare the student for the teaching of journalism on the secondary school level.

470—**Curriculum of the Secondary Schools.** 2-3-0-**X.** A course which examines the present day structure and nature of the secondary school curriculum.

472—**Student Activities in Secondary Schools.** 1-2-0-**X.** Consideration is given to the general nature, activities, and organization of the student extra-curricular progarm.

481-494—**Student Teaching in High School.** 9-0-0-**F,W,S.** The individual courses in pre-service student teaching are as follows: 481—Business Education: 482—Art Education; 483—Industrial Arts; 484—English; 485—Foreign Languages; 486—Sciences; 487—Mathematics; 488—Social Studies; 489—Speech; 491—Health, Physical Education, Recreation; 492—Library Science; 493—Music Education; and 494—Journalism.

495—**Seminar in Secondary Student Teaching.** 6-0-0-**Su.** Prerequisite: Permission of instructor. Designed to meet the student teaching requirement for noncertified experienced teachers, this course deals with classroom management, programs of instruction, and student role in the educational environment.

496—**Internship in Secondary Education.** 9-0-0-**X.** Prerequisite: permission of the Director of Interns. Reserved for those students who are enrolled in the internship program.

SOCIOLOGY (SOC—292)

Note: All 400 level courses are open only to students of junior standing or higher.

101—**Introduction to Sociology.** 3-4-0-**Q.** Prerequisite to all other sociology courses. A course designed to give the student a general overview of the perspective, concepts, and methodology of sociology.

230—**Introduction to Social Work.** 3-4-0-**F,W,S.** An introduction to the purpose, methods, and philosophy of contemporary social work. Open to persons in other disciplines.

240—**Social Problems.** 3-4-0-**F,S.** A study of representative contemporary problems, with emphasis on causes which arise from cultural patterns and social change.

310—**Urban Sociology.** 3-4-0-**Q.** An analysis of the nature of urban society and the factors shaping it, including the influence of urban ecology and ecological processes.

311—**Rural Sociology.** 3-4-0-**F,S.** A study of the structure, institutions, and social processes of rural society; and of the effect of urbanization on rural society.

314—**The Family.** 3-4-0-**F,S.** An analysis of the structure and functions of the family as an institution and the factors making for family change.

330—**Methods of Social Case Work.** 3-4-0-**F,W,S.** Prerequisite: SOC 230. A study of the principles of social case work.

331—**Methods of Social Work II.** 3-4-0-**W,Su.** A study of techniques and methods of carrying out practice in group and community settings.

341—**Criminology.** 3-4-0-**W,Su.** A study of causes, treatment, and prevention of crime. Deals with criminology, penology, and criminal legislation.

350—**Sociology of Minorities.** 3-4-0-**F,S.** An analysis of socio-cultural factors in minority-majority relationships and their social and psychic implications.

420—**Industrial Sociology.** 3-4-0-**S.** An advanced sociological study of industrial and work units as social systems in their institutional setting.

424—**Gerontology.** 3-4-0-**W.** Sociology of aging.

426—**Sociology of Education.** 3-4-0-**Su.** A comprehensive study of the educational institution, its relationshop to the community and society.

433—**Field Work Practicum.** 3-9 hrs. arr. **Q.** Designed to provide the student with practical field experiences in a career-oriented area.

440—**Social Control and Collective Behavior.** 3-4-0-**W.** A study of principles and techniques by which conformity to the laws and other norms of social units is produced and maintained.

444—**Juvenile Delinquency.** 3-4-0-**F,S.** A study of causes and the nature of juvenile delinquency, the development of the juvenile court, probation, and other rehabilitative programs.

450—**Social Foundations of Personality.** 3-4-0-**W,Su.** A treatment of the role of the social group and the cultural heritage in the development and functioning of the human personality.

460—**Methods of Social Research.** 3-4-0-**F,S.** A survey of elementary research techniques used in empirical social investigations.

461—**Population.** 3-4-0-**W.** Prerequisite: SOC 460. An introduction to demography, analyzing significant changes in population composition.

471—**Social Institutions.** 3-4-0-**S.** A detailed study of major American social institutions, their functions, interrelationships, and significant trends.

480—**Advanced General Sociology.** 3-4-0-**F,S.** An advanced course in general sociology giving expanded treatment to the basic sociological concepts and subject-matter areas.

481—**History of Social Thought.** 3-4-0-**F.** An examination of early social thought, tracing the development of western thought and ideas from Hammurabi to Comte.

482—**Sociological Theory.** 3-4-0-**W,Su.** A survey of the growth and development of sociological theory from Comte to the present.

492—**Special Problems.** 1-3 hrs. arr. **X.** To be used to pursue specialized interests for which courses are not offered.

SPECIAL EDUCATION (SPE–190)

200—**Practicum in Special Education I.** 1-1-2-**Q.** Initial experience with exceptional children. This introductory course should be taken as soon as possible for majors.

201—**Practicum in Special Education II.** 1-1-2-**Q.** Observational experience with exceptional children.

202—**Practicum in Special Education III.** 1-1-2-**Q.** Tutorial and aide experience with exceptional children.

300—**Problems in Special Education.** 3-4-0-**Q.** Organization and administration at state and local levels of education for the exceptional child.

310—**Student Teaching: Observation.** 1-1-2-**Q.** First clinical and student teaching experience for speech correction majors.

311—**Student Teaching: Screening.** 1-1-2-**Q.** Clinical work in assessing children in speech and audiology.

312—**Student Teaching: Clinical Practice.** 1-7 hrs. arr. **Q.**

400—**The Psychology and Education of the Exceptional Child.** 3-4-0-**Q.** Considers the psychological and educational needs of children of a typical group.

401—**Curriculum Adaptation for Exceptional Youth.** 3-4-0-**W,S.** Considers adjunctive programs commonly utilized in education for exceptional child.

402—**Methods and Materials in Teaching Exceptional Children.** 3-4-0-**Q.** A study of methods and materials useful in meeting the needs of the exceptional child.

403—**Educational Evaluation of Exceptional Children.** 3-4-0-**F,S.** Basic principles underlying measurement and evaluation in education with emphasis on interpretation as it relates to exceptional children.

410—**Methods in Speech and Hearing.** 3-4-0-**W,Su.** Prerequisites: 201, 202, 211, 221, 411, and SHS majors. A course designed to acquaint the speech and hearing major with clinical conditions as found in public schools.

411—**Speech and Hearing Problems for the Classroom Teacher.** 3-4-0-**F,W,Su.** A course designed to acquaint the teacher with speech and hearing problems commonly found in the classroom.

420—**Physiology and Hygiene of the Eye.** 3-4-0-**W.** Identification function, and care of the eye as it relates to the visually handicapped.

421—**Methods and Materials in Teaching Visually Handicapped.** 3-4-0-**F.** A study of practices commonly used in education programs. including Braille, space orientation, special materials, and organization.

422—**Braille.** 3-4-0-**W.**

423—**Teaching of Braille.** 3-4-0-**S.** Prerequistie: SPE 422 or equivalent.

424—**Special Adjustments of the Visually Handicapped.** 3-4-0-**W.** Introduction to mobility training and spatial orientation.

425—**Psychology and Education of the Visually Handicapped.** 3-4-0-**F.** A study of social-emotional and cognitive learning factors of the visually handicapped.

428—**Psychology and Education of the Physically Handicapped.** 3-4-0-**W.** A study of major handicapping conditions, adaptation, social emotional, and intellectual consideration.

429—**Curriculum for the Physically Handicapped.** 3-1-3-**S.** A study of education programs for the physically handicapped.

430—**Learning Disabilities.** 3-4-0-**F,W,Su.** Prerequisite: SPE 400 or permission. A study of social, emotional, physical, and learning characteristics of extreme learning disabilities.

431—**Curricula for Specific Learning Disabilities.** 3-2-2-**Q.** A study of specific learning experiences in educating the learning disabled.

432—**Methods and Materials for Teaching Learning Disabilities.** 3-4-0-**Q.** Prerequisite: SPE 430 or permission. A study of methods and materials most useful in teaching the perceptually handicapped.

440—**Education of the Mentally Retarded.** 3-4-0-**F,W,Su.** Prerequisite; SPE 400 or permission. A study of social, emotional, physical, and intellectual characteristics of the mentally retarded.

441—**Curricula for the Mentally Retarded.** 3-2-2-**Q.** A study of specific learning experiences in educating the mentally retarded.

442—**Methods and Materials for Teaching the Mentally Retarded.** 3-4-0-**Q.** Prerequisite: SPE 440 or permission. A study of methods and materials most useful in teaching the mentally retarded.

480—**Student Teaching of the Mentally Retarded.** 9-2-12-**Q.**

482—**Student Teaching the Visually Handicapped.** 9-2-12-**Q.**

483—**Student Teaching the Physically Handicapped.** 9-2-12-**Q.**

485—**Student Teaching in Learning Disabilities.** 9-2-12-**Q.**

489—**Seminar in Special Education of Student Teaching.** 1-6 hrs. arr. **X.** In-service student teaching designed for experienced teachers who have demonstrated their interest and ability as classroom teachers.

490—**Workshop in Special Education.** 1-3 hrs. arr. **X.**

492—**Special Problems in Special Education.** 1-3 hrs. arr. **Q.** A consideration of special interest areas in the field of exceptional children. Must be arranged with the Department of Special Education.

SPEECH AND HEARING SCIENCES (SHS—296)

201—**Introduction to Phonetics.** 3-4-0-**F,W.**

202—**Fundamentals of Speech and Hearing Science.** 3-4-0-**F,W.**

211—**Introduction to Communication Disorders.** 3-4-0-**W,S.**

221—**Introduction to Audiology.** 3-4-0-**W,S.**

401—**Language Development.** 3-4-0-**F,W.**

402—**Anatomy and Physiology of the Hearing Mechanism.** 3-4-0-**F.**

403—**Anatomy and Physiology of the Speech Mechanism.** 3-4-0-**W.**

411—**Articulation Disorders.** 3-4-0-**F,S.** Prerequisites: SHS 201, 211.

412—**Diagnostic Procedures in Speech Pathology I.** 3-4-0-**F,W.** Prerequisites: SHS 201, 211.

413—**Voice Disorders.** 3-4-0-**W,S.** Prerequisites: SHS 211, 403.

414—**Stuttering and Related Problems.** 3-4-0-**F,S.** Prerequisites: SHS 211.

415—**Speech and Language Disorders of the Cerebral Palsied.** 3-4-0-**X.** Prerequisites: SHS 211, 403.

416—**Adult Aphasia and Related Problems.** 3-4-0-**S.** Prerequisites: SHS 211, 403.

417—**Speech and Language Disorders Related to Cleft Palate.** 3-4-0-**Su.** Prerequisites: SHS 211, 403.

421—**Aural Rehabilitation.** 3-4-0-**F,W.** Prerequisite: SHS 221.

423—**Methods of Communicating with the Hearing Impaired I.** 2-3-0-**S.** Prerequisite: SHS 437.

425—**Psycho-Social Factors Associated with Hearing Impairment.** 3-4-0-X. Prerequisite: Consent of instructor.

426—**Secondary School Methods and Curriculum for Hearing Impaired Children.** 3-4-0-X. Prerequisites: SHS 433, SHS 438.

431—**Language Disorders I: Assessment of Children with Language Disorders.** 3-4-0-F,W. Prerequisite: SHS 401.

432—**Language Disorders II: Habilitation of the Aphasic Child.** 3-4-0-W,S. Prerequisites: SHS 201, 401, 431.

433—**Developing Language Skills with the Hearing Impaired.** 3-4-0-F,S.

435—**Developing Oral/Aural Communication in Hearing Impaired Children.** 3-4-0-S. Prerequisite: SHS 201.

436—**Developing Reading in the Hearing Impaired.** 3-4-0-Su. Prerequisite: SHS 433 or consent of instructor.

437—**Introduction to Education of the Hearing Impaired.** 3-4-0-X.

438—**Problems in Academic Subjects for the Hard-of-Hearing and Deaf.** 3-4-0-X.

439—**Education of Preschool Hearing Impaired Children.** 3-4-0-F,S. Prerequisite: SHS 221. Practicum required.

492—**Special Problems.** 1-3 hrs. arr. Q.

TECHNOLOGY (TEC—398)

348—**Graphics.** 3-2-4-X. A study of graphical design techniques, work methods and procedures.

349—**Production Graphics.** 3-2-4-X. Prerequisite: TEC 348. A study of working drawings, symbology, conventions, and common graphic communications techniques.

350—**Elements of Design.** 3-2-4-X. Prerequisite: TEC 349. An introduction to non-analytical problem solving techniques.

392—**Special Problems.** 1-3 hrs. arr. Q. Prerequisite: Junior standing and approval of faculty adviser. Individual or group study in an area not covered by available courses.

400—**Senior Project.** 3 hrs. arr. Q. Prerequisite: Senior standing and approval of faculty adviser. The student is required to complete a project in his area of specialization.

401—**Senior Project.** 3 hrs. arr. Z. Prerequisite: Senior standing and approval of faculty adviser. The student is required to complete a project in his area of specialization.

492—**Special Problems.** 1-3 hrs. arr. Q. Prerequisite: Senior standing and approval of faculty adviser. Supervised study in an area not covered by available courses.

THEATRE ARTS (THE-685)

100—**University Theatre.** 1-2-0-F. Participation in the major theatrical productions of the department.

101—**University Theatre.** 1-2-0-W. A continuation of THE 100.

102—**University Theatre.** 1-2-0-S A continuation of THE 101.

103—**Introduction to Theatre.** 3-4-0-F.

104—**Introduction to Costume.** 3-4-2-F. Costume theory and practical workshop procedures.

111—**Fundamentals of Oral Interpretation.** 3-4-0-Q. General educational approach to the art as a means of communicating literary content.

120—**Fundamentals of Acting.** 3-4-0-Q.

125—**Movement forthe Actor.** 2-2-2-F,W.

140—**Vocal Techniques for the Actor-Singer.** 2-2-0-S. May be taken three times.

150—**Beginning Modern Dance.** 2-2-2-F. Discussion and practice of movement patterns, improvisation, and studies in modern dance for the non-major.

151—**Beginning Modern Dance.** 2-2-2-W. A continuation of THE 150.

152—**Modern Dance Techniques and Composition.** 3-4-3-Q. Discussion and practice of movement skills and studies in modern dance for the dance major. May be repeated for a total of nine hours.

200—**Stagecraft.** 3-3-1-F,W,S. Both study and practical application of the techniques of building and painting stage scenery and properties.

204—**Stage Makeup.** 2-2-2-F,S.

220—**University Theatre.** 1-2-0-F. A continuation of THE 102.

221—**University Theatre.** 1-2-0-W. A continuation of THE 220.

222—**University Theatre.** 1-2-0-S. A continuation of THE 221.

240—**Mime and Pantomine.** 2-2-2-S.

250—**Beginning Ballet Technique.** 2-2-2-F. Discussion and practice of movements in ballet for the non-major.

251—**Beginning Ballet Technique.** 2-2-2-W. A continuation of THE 250.

252—**Ballet Technique.** 3-4-3-Q. Discussion and practice of ballet skills for the dance major. May be repeated for a total of nine hours.

253—**Dance Improvisation.** 2-2-2-W.

254—**Music Analysis and Accompaniment for Dance.** 2-3-1-Z.

258—**Modern Dance Technique and Survey.** 3-4-3-Q. May be repeated for a total of nine hours.

259—**Intermediate Dance Composition.** 3-3-3-W. Exploration of the elements of dance applied to dance choreography.

301—**Reader's Theatre.** 3-4-0-S. Prerequisite: THE 111. Theories and problems of presenting prose, poetry, and drama in group performances.

306—**Scene Design.** 3-4-0-W. Prerequisite: THE 200 or consent of instructor. Elements of stage design. Play analysis in terms of visualization and style, and the mechanics of developing an effective stage setting.

310—**Intermediate Acting.** 2-2-0-W. Continuation of THE 120.

320—**Directing.** 3-4-0-F. Prerequisites: THE 120 and 200.

330—**University Theatre.** 1-2-0-F. A continuation of THE 222.

331—**University Theatre.** 1-2-0-W. A continuation of THE 330.

332—**University Theatre.** 1-2-0-S. A continuation of THE 331.

341—**Opera Workshop.** 1-2-0-F. A complete stage production of scenes and major productions from the Music Theatre repertoire for public performance.

342—**Opera Workshop.** 1-2-0-W. A continuation of THE 341.

343—**Opera Workshop.** 1-2-0-S. A continuation of THE 342.

350—**Tap.** 2-2-2-S. Study of the various styles of tap including rhythm, jazz, and ballet forms.

351—**Jazz.** 2-2-2-W. The study and application of the principles of jazz movement.

356—**Dance History I.** 3-4-0-W.

357—**Dance History II.** 3-4-0-S.

358—**Dance Technique and Theory.** 3-4-3-Q. May be repeated for a total of nine hours.

359—**Advanced Dance Composition.** 3-4-0-W.

370—**Methods of Teaching Dance.** 3-3-1-F. A study of the philosophy, principles, and objectives of teaching dance. Includes observation and supervised teaching experiences.

401—**Costume Design.** 3-4-0-S.

411—**Advanced Oral Interpretation.** 2-3-0-W. Special problems related to the oral interpretation of poetry and prose.

412—**Stage Lighting.** 3-4-0-F. Theory and application of general and special lighting, color, instrumentation, and control.

416—**Playwriting.** 3-4-0-S. Prerequisite: Consent of instructor.

417—**Advanced Acting.** 3-4-0-W. Emphasis on presentational styles.

420—**Advanced Directing.** 3-4-0-W. Prerequisite: THE 320.

427—**Theatre History I.** 3-4-0-F. Study of the development of the theatre from early Egypt.

428—**Theatre History II.** 3-4-0-W. A continuation of THE 427.

429—**Theatre History III.** 3-4-0-S. A continuation of THE 428.

430—**Summer Theatre I.** 3-3-0-Su. Concentrated applied theatre.

431—**Summer Theatre II.** 3-3-0-Su. A continuation of THE 430.

435—**Advanced Scene Design.** 3-4-0-S, 1977. Prerequisite: THE 306 or consent of instructor. The techniques of scene design as applied to non-realistic stage settings.

440—**Ballet Technique.** 3-4-3-Q. Continuation and further enrichment of the teachnique of ballet for the dance major. May be repeated for a total of nine hours.

445—**Advanced Stage Lighting.** 3-4-0-S, 1976.

446—**Experimental Theatre.** 3-4-0-F. A study of new forms in theatre.

447—**Opera Workshop.** 1-2-0-F. A continuation of THE 343.

448—**Opera Workshop.** 1-2-0-W. A continuation of THE 447.

449—**Opera Workshop.** 1-2-0-S. A continuation of THE 448.

450—**University Theatre.** 1-2-0-F. A continuation of THE 332.

451—**University Theatre.** 1-2-0-W. A continuation of THE 450.

452—**University Theatre.** 1-2-0-S. A continuation of THE 451.

455—**Dance Repertory.** 1-2-0-Q. May be repeated for a total of six hours.

458—**Dance Technique and Analysis.** 3-4-3-Q. May be repeated for a total of nine hours.

459—**Musical Theatre Production.** 3-4-0-F,S,Su. Prerequisite: One hour of Opera Workshop. Study of the different forms and styles of Music Theatre with special attention to the various elements of productions.

465—**Music Resources for Dance.** 2-2-2-X. Studying and gathering of music resources for dance.

466—**Methods of Dance Lecture and Demonstration.** 3-4-0-S, 1976. Methods of preparing dance lecture-demonstrations and tours.

467—**Dance Curriculum and Organization Methods.** 3-4-0-**F.** Study of dance curriculum design and organization.

468—**Musical Theatre Dance.** 2-2-2-**F,W,S.**

470—**Senior Dance Production.** 3-4-0-**S.**

480—**Directing Children's Theatre.** 3-4-0-**X.** The techniques of directing, organizing, and administering a children's theatre program.

490—**Theatre Workshop.** 3-4-0-**Su.** Designed for the non-theatre major (i.e., English, speech, music, etc.) who is responsible for directing school or community drama activities.

492—**Problems in Theatre I.** 2-0-0-**X.** Prerequisite: Consent of instructor.

492—**Problems in Theatre II.** 2-0-0-**X.** Prerequisite: Consent of instructor.

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